



# TO THE HIGH AND MIGHTY CHARLES, ONLY

SONNE OF HIS MAIESTY, PRINCE OF Wales, DVKE of Cornewall, Yorke, and Albany, MARQUISE of Ormant, EARLE of Chefter, and Roff,
LORD of Admanoch, and KNICH TO THE most respect to the Garter.



Ow much the Gracians excelled all other Nations in the Sciences called Liberall, is better knowne in generall, then needfull at this time particularly to be rehearfed to your Highneffe. The Romans themselves albeit otherwise ambitious, and out of meafure thirsty of honour, and challen-

ging to themselues the highest degree of grauity, constancie, greatnesse of minde, wisedome, faith, and skill of war, contended not herein, but freely lest them the possession of that praise vnquestioned. For warre it is not my purpose at this time to make comparison, or commit the two Nations together. The controuersie is already moued by other, and hangeth vndecided in the Court of learning. Thus much, me thinks, I may truly affirme, that the Graesians were the first, that out of variety of actions, and long experience reduced the knowledge of Armes into an Arte, and gaue precepts for the orderly mouing a Battaile, and taught, that the moments of victory rested not in the hands

hands of multitudes, but in a few men rightly instructed to manage armes, and trained vp in the observation of the discipline of the field. In which regard they had almost in all Cities amongst them Masters of Armes, whom they called Tallicks, which delivered the Arte Military to such, as were defirous to learne. Out of whose Schooles issued those chiefs of warre in number so many, in skill so exquisite, in valor so peerelesse, in all vertues beseeming great Generals so admirable, that no Nation of Europe euen to this day hath been able to match, much leffe to ouer-match their fame, and glory. And the time was when the Lacedemonians exceeded the rest in Martiall skill, and were thought to be the best Souldiers of Greece; by meanes whereof they aduanced themselues to the Principality of Greece, which they held with fuch reputation, that an enemie by the space of 500 yeares was not seene within their Territory. Till at last growing insolent, and surfeiting of, and being not able to brooke their owne fortune, they fought to oppresse, and with wrong and force to possesse the City of Thebes, and stirred vp Epaminondas a Theban by birth, and from his tender yeares nourished by his fathers care in the study of Philosophy, and the science of Armes, to oppose against them, who in two battailes, the one at Leustra, the other at Mantinea so broke their forces. that from that day forth they were neuerable to recouer their wonted authority, and power in the field. Philip the sonne of Amyntas King of Macedonia, being but a private man, was deliuered as a hostage to the Thebans, & brought. vp in the same house and learning with Epaminondas. He afterward became King of Macedonia; which being of it felfe but a poorekingdome, and before his time sometimes kept under by the Athenians, sometimes by the Lacedemonians, sometimes by the Thebans, & finding it at his entrance

to the Crowne harried, and spoiled by the Paonians, and forced to pay tribute by the flyrians, by erecting a new arte, and discipline of warre, to which he exercised, and enured his Macedonians, he not only freed his Countrey from the Barbarous nations, but also ouercame the Gracians, accounted the only Masters of armes till that day, and caused himselfe to be declared Generall of Greece against the Persians: against whom after he had made his full preparation, he refolued to go in person. But being preuented by death, he left the succession of his kingdom, and execution of his designes to Alexander his sonne, whom he had before curiously instructed in the discipline of Armes invented by himselfe. The same Alexander (being about 20 yeares of age) after he had vanquished Darius in 2 great battailes in 12 yeeres ran through, and subjected the spacious, rich, and flourishing kingdomes of Asia, even as far, as the East Indies, and with terror of armes made the whole world to tremble at his name. His kingdomes were after his death divided amongst many Successors, who by the same Arte military easily maintained the possession of their conquests. This Arte is it, that I at this time present vnto your Highnesse. It was comprised in writing by many, and yet none of their works attained our age, but only that of Ælian, who hath in a small volume so expressed the arte, that nothing is more short, nothing more linked together in-coherence of precepts, and yet distinguished with such variety, that all motions requifite, or to be vied in a Battaile are fully expressed therin. Helian lived in the time of Adrian the Emperor. How much the booke was of ancient time effeemed may appeare by this alone, that Leo a succeeding Emperor setting downe Martiall instructions for the government of his Empire, transcribeth whole passages out of Ælian,& whensoeuer he citeth, or nameth the Tallicks, he giveth still the first place vnto Ælian. Howbeit

to

Howbeit the practise of Aelians precepts hath long lien wrapped vp in darknes, & buried (as it were) in the ruines of time, vntill it was reuiued, & restored to light not long since in the vnited Prouinces of the low-Countries, which Countries at this day are the Schoole of war, whither the most Martiall spirits of Europe resort to lay downe the Apprentiship of their seruice in Armes, and it was reuiued by the direction of that Heroicall Prince Maurice of Nassau, Prince of O. range, Gouernour, and Generall of the faid Countries, a Prince borne and bred vp in Armes, and ( beside the completenes of his other eminent vertues) for skill, experience, judgement, and military literature comparable to the greatest Generals, that euer were. I have of late adventured to take from Ælian his Greekish cloake, and to put him in English apparell, that in that habit he might attend your Highnesse, and be ready with his feruice, in case he were thought worthy of employment. He had before for his Patron Adrian, an Emperor, and Ruler of the Roman world. Now he humbly craueth your HIGHNESS E fauour for his protection, who as in Princely descent, and succession of Royall blood you are farre superior, so in vertues worthy of your birth, and yeares, and in all hopefull expectations are you nothing inferior to Adrian. It may please your Highnesse to regard him with a gratious eye, and to esteeme the Presentor of him your faithfull bedefman, that will not ceafe to pray to the mighty God of hosts, to give you conquest over all your enemies. From my Garrison at Woudrichem in Holland the 20 of September 1616.

Your Highnesse most humbly deuoted,

Io: BINGHAM.



THE TACTICKS OF ÆLIAN or art of embattailing an army after the Grecian manner.

T

HE Grecian arte of embattailing an army (most mightie Augustus Cesar Adrian) the antiquitie whereof reacheth back to the age wherein Homer lyved, hath beene committed to wryting by many, whose skill in the Mathematicks was not reputed equal with

myne: whereby I was induced to thinke it possible for me foe to deliver the groundes therof, that possible for me foe to deliver the groundes therof, that possible for me foe to deliver the groundes therof, that possible for me for the haue handled the same argument. But weighing againe myn own ignorance (for I must confesse a truth) in that skill & practise of armes, which is now in esteeme among the Romaines, I was by feare with-held from reviving a science half dead, as it were, and since the invention of that other by your auncestors, altogeather out of request and vnregarded. Notwithstanding comming afterward to Fornie to doe my dutie to the 'Emperour Nerva your maiesties father, It was my fortune to spendsometime with 'Frontine a man of Consular dignitie, and of great reputation by reason of his experience

in militarie affaires : and after conference with him perceiving he imparted no leffe studie to the Grecian, then to the Romaine discipline of armes I began not to despise

that of the Grecians, conceiving that Frontine would not fo much affect it, if hee thought it inferiour to the Romaine. Having therefore in times past framed a project of this worke, but yet not daring then to publish it in regard of 3 your majesties incomparable valour, and experience, which make you famous aboue all Generalis without exception, that euer were: I have of late taken it againe in hand, & finished it, being (if I deceaue not my

felf) a worke both worthy to be accompted of, & of fufficiencie, especially with such as are studious of the arte, to obscure the credit of the auncient Tatticks. For in respect of the perspicuitie I dare bouldlie affirme, the rea-

der shall more advantage himselfe by this little volume, then by al their writings: fuch is the order and methode, I haue followed. Howbeit I durst scarcely offer it to your majestie who have beene Generall of so greate war es, least happily it proue too flender a prefent, &

altogether vnworthy of your facred viewe. And yet if your majestie shall bee pleased to thinke of it, as of a Greekish Theorie, or a various discourse it may bee, it will give you some little delight, the rather because you may therin behold Alexander the Macedons manner of marshal-

ling his fields. And for that I am not ignorant of your majesties more weightie affaires, I have reparted it into chapters, to the end you may without reading the booke in few wordes take the fomme of that, which is to bee delivered,

and without losse of time find the places you are desirous to peruse.

The Tacticks] As Taxis in a general sence signifieth order, so Tacticos is as much, as perteyning to order: but specially taken, it signifieth parteyning to order of a battaile, or to the embattailing of an army. Hereof the arte of embattailing an army is called Tactice, and hee, that is skillful, and experienced in that arte. Tacticos ( Vegetius na. . Ven. 9 meth him magistrum armorum) and the books written of the arte. Tactica. And that this is the true fignification of the word may appeare by Xenophons Cyropedia, where the arte Tactick is distinguished from the arte Imperatory, or arte of a Generall. Hee induceth Cyrus, in a discourse with his father speaking this: b In the end you asked b xcooph, eymee what my master taught mee, when hee professed to teach the art Impera-

tory. And when I answered, the Tacticks, you smiled, and asked particulerly, what the Tacticks availed without provision of thinges necessary to live by what without preservacion of health? what without knowledge of arts invented for the vie of warre? what without obedience? fo that you plainely shewed, that the Tacticks are but a small portion of the arte Imperatory, or of commanding an army, Thus Xenophon: making a difference between the arte Impe-

ratory, or the arte Tactick. And in other place hee peaketh yet more particularly : Cy - ( Xenoshon cy. 100 lib & c. 137. rus, fand hee, esteemed it not the duty of a Tactick to enlarge onely, or to stretch out in length the front of his Phalange, or to draweit out in depth, or to reduce it from a winge to a Phalange, or to countermarche readily, the enemy shewing himselfe on the right, or left hand, or in the rear, but to divide it, when need is, & to place enery part for most advantage, & to leade it on speedily when occasion is of prevention. Tet sometimes in a generall signification books entreasing of the whole arte of warr are called Tacticks: as the Constitutions military of

the Emperour Leo are entituled Tactica Leonis, perhaps of the best parte, because the arte of embattailing an army hath alwayes been esteemed the chiefest point of skill in a Plusin Philo a Generall. Howbeit Alian in his title of this booke taketh Tactice in the freighter e infracap. fignification as appeareth by the definitions, he alleageth out of Aneas and Polibius: of whome the first defineth the art Tactick to bee a science of warlick motion; with whome also i Leo agreeth: the other, to bee a skill, whereby, a man taking a multi-fico.cap.t.

tude ferviceable, ordereth it into files, and bodies, and inftructeth it fufficiently in all thinges apperteining to warre. Which two definitions comprehend in fewe words the argument of the whole booke. For first Ælian intreateth of levieng, er of arming men, then of filing, next of joyning files, and making bodies, after of ordeting the whole Phalange, or battaile, further of motions requisit to affront the enemy, wher foever he giveth on, whether in front, flank, or reare; laftly of marching, and of the fondry formes of battailes carieng with them advantage of charging or repulling the enemy in your marche. He that will further understand the boundes of this

arte, let him reade in the 21 .chapter of Leo the 58. section. I The Emperour Nerva your maiesties Father The Emperour Nerva here mentioned was not Nerva Cocceius, whoe succeeded Domitian, but V lpius Traianus, who was also called Nerva, because he was adopted by Nerva Cocceius & succeeded in the Em. pire. And where Ælian termeth him Adrians father, indeed Adrian pretended, he was

Traians sonne by adoption. But & Dio plainely denieth it, & Spartian faith, some repor- & Dio & Spart ted hee was adopted by the faction of Plotina (Traians wife) by substituting Advance one to speake with a faint voice, as if it had beene Traian vpon his death-bed, whereas Traian was before departed this world. This is agreed, that he was Cosin

Notes.

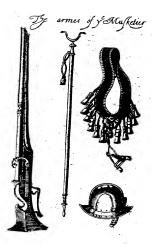
2 To spend some time with Frontine] Frontine beer mensioned was the same that wrote the book of Strategenes, now extant, or commonly sopned in one volume with Vegetius. Hee was amm curious in the same of the Gracium discipline, as may be seen by his owne presact to his bookes of Strategemes; or by the tellimony of Risan, or in the infection of the treatment of the treatment of the same much essentially the Emperour Traian. Hee lived also in greater eputation in the time of Vespassan; at least if it bee hee, that Tacius speakets of in the life of lusius Agricula. Analysis must be the very well, there being no so more then twenty veares, or certaine monthes betwiet the reigns of Traian, or the reigns of Vespassanian. Risian frontine is reported by Tacius to have overthrowne the Situres in Britaine. Risian the next chapter calleth him Fronto. Of one Fronto, that was Consulin the third year of a threigneof Traian, I tread in 50 in whose same is the meant chapter calleth him Fronto. Of one Fronto, that was Consulin the third year of a threigneof Traian, I tread in 50 in whose same in the next chapter calleth with the control of the proposed of the control of the proposed of the control of the

Narcus Cornelius Fronto; this (that Relian speaketh of) Inlius Frontine. And yet it as not wonder that Frontine in Latine should be called Fronto in Greek, it being what for the Gracians to ware, and descent a list from the property of the latine names.

d Spartian,in

c Dio in vita

Your majesties incomparable valor & experience ] That this praise given Adrian u not altogether without cause, may appeare by that, which & Elius Sparttanus writeth in the life of Adria. His wordes have this meaning. After this, taking his journey into France, he was bowntifull to all, as he sawe cause. From thence hee passed into Germany, & being rather desirous of peace, then warre, yet hee so exercifed his fouldiers, as though warre were at hand; teaching them to indure paines & hardnesse, himselfe giving an example of military life: gladly alfo vfingCamp fare, as namely lard, & cheefe, for meate, & water mingled with vineger for drink, in imitation of Scipio Æmilianus, & of Metellus, & of Traian the author of his preferment & rifing, bestowing rewardes vpon many, honors vpon some, to encourage them to beare such things, as seemed harshe in his commaundes. And furely it was hee next Octavius, that vpheld military discipline (declyning nowe through the remissenesse of former Emperous) by ordering both the places of Commaunde, & the payes; never fuffering any man to absent himselfe from the Campe, but vpon just cause: measuring the worthe of Tribunes not by favour of the fouldiers, but by their owne desert; exhorting, & exciting all the rest by example of his owne vertue, whilest hee often marched twenty miles on foote, being fully armed, broke downe banquetting howses, and galleries, & vaults for coolenesse, & arbors, wheresoever hee found them in the Campe; & was seene in a plaine garment vsully; wore a baudricke not gamished with gold, buttons without gemmes; scarcely allowing an ivory handle to his fword; vifited his fick fouldiers in their lodgings, himselse chose out the grownd to encampe in: made noe Captaine, but a man of a strong body, noe Tribune, but with a growne beard, or of age, that by prudence, and yeares was able to fway the weight of the place: nor fuffred him to take ought from the fouldier; removed all delicacies; and lastly reformed theirearmes, and baggage. Hee had besides consideration of the age of souldiers, allowing none younger, then was besitting vertue; nor elder, then stood with the lawes of humanity, to bee conversant in the Campe.com-



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> Macein the to A. ViR

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trary to old custome, and vsage: and gaue himselfe to have particular knowledge of them all, and what their number was. Furthermore he was carefull to understand the controversities betwix it fouldier and fouldier, and searched with great attentiveness since the end to supply, what was wanting; endevouring notwithstanding above all neither to buy, not seede ought, that was not for vsc. Wherefore when he had salinioned his soludiers to his owne example, he passed over into Britaine, where he corrected many things, and was the first that drew a wall along by the space of eighty mile; wherewith he duided the Romans from the barbarous people. Inthoto Spartian. I have recited the historie as large, because I might represent the pissure of an excellent General.

4 Alexander the Macedons manner.] That the booke comprehended the Macedonian dissipline of armes, I will show be reaster, as particulars offer themselves. In the meane time let thus suffice for an argument, that Elian a ambiethmost to affirme it to Adrian, a Prince excellently learned with Greek larguage; and as by reason of skill he would have ensured.

so grosse an escape, if it had beene oth rwise, than Elian reportesh.

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The

### The Tadicks of Ælian.



The Authors that have written Tacticks; of this booke, and of the profit of the Arte.

CHAP. I.

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omer the Poer seemeth to be the first, (at least we read of) that had the skill of imbatratiling an Army, and that admired men indued with that knowledge; as appeareth by Amesheum of whom he writesth,

His like no liuing wight was found nor any age did yeild, To marshall Troopes of horse, or bands of socie in bloudy sield.

Concerning Homers discipline militarie, the workes of Stratecles, and of ' Frontine a man of Consular dignitie in our time are to be read. Aneas perfected the Theorie thereof at large publishing many volumes of warfare, which were abridged by 3 Cyneas the Theffalian. Likewise 4 Pyrrhus the Epirote wrote Tacticks, and his sonne & Alexander, and Clearchus, and Pausanias, and Euangelus, and 7 Polybius the Megapolitan (a man of great learning, Scipioes companion) and Empolemus, and 3 Iphicrates; 9 Posidonius also the Stoick fet forth the art of warre, and many other, fome in Introductions, as Brion, some in large Tactick volumes. All which, I have feene, and read, and yet thinke it not much to purpofe to mention particularly; being not ignorant, that it hath beene the manner of those writers for the most part, to apply their ftile not to the ignorant, but to fuch as are already acquainted with the matters they intreat of. As for the impediments, which presented themselues to me, when I first gaue my minde to the studie of this Art, as namely neither to happen vpon sufficient Instructors, nor yet to find light, or perspicuitieenough in the precepts delivered; I will endeuour, as much as I can, to remoue out of other mens way: And as often as words shall faile to expresse my meaning, I will for plainenesse sake, vie the direction of figures, and pourtraicts, adiouning thereby the view of the eye, as an aide, and affistance, to the understanding, and withall reteine the termes of auncient Authors, to the end, that whosoever shall follow this booke for an introduction, being therein exercised both to the same words; and also to the vsage of things expressed in them, may grow as it were acquainted, and imagine himselfe no stranger, when he commeth to read their workes. By which waies by me prescribed, I make no doubt, they will easily be understood. Now that this Art of all other is of most le, may appeare by Plato in his booke of Lawes, where he faith: That the Cretan Lawgiver so contrived his Lawes, as if men were alway prapared to fight. For all Cities have by nature unproclaimed warre one against another. Which being so: what discipline is more to be esteemed, or more available to mans life, then this of warre? Notes.

#### Notes.

I seemeth by this Chapter, that the Authors, that have of auncient time written Ta-Liticks, have beene many: and those not of such kinde of men, as have given themselves to study, and contemplation alone, but of such, as besides their knowledge in good letters. baue beene actors in warre them elues of (which is more) principall actors. Tome of them Generalls, other the next degree to Generalls. Howbest there is none here mentioned by Elian, whose workes are extant. Whereby may be esteemed the inestimable losse, these later ages have suffred, in being deprived of such excellent monuments. I hope, I may so terme them without offence, though I have not feene them. For what but excellent, can proceed from men of such excellencie in their profession? such as the most part of those were. Yet for some of them I can say nothing, as finding little remembrance of them in ancient writers. Of this kind are Eupolemus, Stratocles, Hermias, Clearchus, Paulanias : albeit such names may often be found : The rest are specially mentioned, and much commended. Of whom I will fet downe, what I finde.

I Frontinea man of Consular dignity I have before noted somewhat of Frontine. We have of his as it is thought, other workes besides his stratagemes : but this booke of Tacticks, whereof Elian speaketh, we have not. I will onely adde the relation of a Veget. lib. 2. 2 Vegetius touching Frontine, who writeth thus: Cato the elder, albeit he had beene both invincible in armes, and often Generall of great Armies, beleeued yet he should more profit his Countrey, if he laid downe in writing the discipline of warre. For valiant acts are but of one mans age, but things written for the profit of the State endure for euer. Many other haue done the like, but efpecially Frontine; whose industry herein was greatly approved by the Emperour Traian.

b Polyblib.to 2 Encas perfected the Theory.] Encas is mentioned by b Polybius in his tenth booke, where he discourseth of signes to be made by beacons of fire in case an enemy approacheth to any part of our Countrey. His bookes were intituled, Commentaries of the office of a Generall, as Polybius faith; and Elian here calleth them, Bookes of the office of a Generall, the title being all one in effect. Of these bookes none have reached to our age but one alone which comprises precepts of defending a Towne besieged, and some s or 6 yeares agoe came first to light, and print: that worthy man Isaac Casaubon, the learned ornament of his Countrey, (and of England so long, as he lived there) being the fetter forth. And it is adjoyned to his edition of Polybius. These bookes Tattick of . Eneas were abridged ( as Elian (aith ) by

Cyneas the Thesfalian Plutarch in the life of Pyrrhus telleth vs what Cyneas was. There was, faith he, in the Court of Pyrrhus a Thessalian, a man of great vinderstanding: and who having heard the Orator Demosthenes, seemed alone of all, that then were esteemed eloquent, to renew in the memory of the hearers an image and shadow of the vehemencie and vigor of his vtterance. Pyrrhus held him in his Court, and madevse of him, in sending him in embassages to people and Cities. In which embassages hee confirmed the saying of Euripides.

> What ever force can doe, with trenchant (words: The fame, or more, is wrought by pleafing words.

Therefore was Pyrrhus wont to fay, that Cyneas had gained more Cities with his eloquence, then himselse with armes. By occasion whereof hee did

him great honor, & employed him in his principal affaires, Tully beaketh of his workes: your letters, (faith he to Papyrius Pætus) haue made me a great Gene- a Giero, grift rall: I was altogether ignorant of your fo great skill in military matters. I fee policy. you have read the books of Pyrrhus & Cynzas, I therefore purpose to follow your counfel: this yet more, to have fome fewe shippes in a readinesse ypo the fea-coaft. They fay, there is noe better armour against Parthian horsemen. But why fport wee? you knowe not, with what a Generall you haue to doe. I haue in this my governement fully in practife expressed Xenophons institution of Cyrus: which before I had worne a pieces with reading. Pyrrhus & Cyneas, hee nameth, is two principall Authors of warlick discipline: And where he addeth Xenophon, whoe, though he be not named by Ælian amongest the Tactick writers, descrueth yet not to be pretermitted, having been both a great Comaunder, es belides writte largely of military matters, whose workes also are now extat let us see what he saith of him in another place. Cyrus, faith he, is written by Xenophon, not according to the truthe of b spile at a an history, but for a patterne of just governement. Whose wondrous grauity is by that Philosopher matched with singuler Curtese, which bookes our Africanus, (and that not without cause) was never wont to let goe out of his handes. And of Africanus he reporteth the like in his . Tusculan quæstions.

4 Pyrrhus the Epriote wrote Tacticks.] Pyrrhus the K. of Epirus was of aun- 10 2.146. cient time esteemed one of the best Generalls, that ever was What a Anniballs indrement a tien decal + was of him Liuy reporteth, & Plutarch in the life of Pyrrhus. And Antigonus being de-epinip Pyrtho. maunded, whom hee thought the greatest generall, then living, aunswered Pyrrhus. And where other Kings imitated Alexander the great in purple apparaile in number of gardes about theire persons, in carieng the necke a litle awry, & in speaking lowde, hee alone repræsented him in exploictes of armes, & in deedes of L'Oves, faith Plutarch. Plutarch faith likewife: Towching his skill in the arte f Photarch, in i ditary howe to order a battaile, and howe to bring his men to fighte with most advantage, a man may draw proofe sufficient out of the books, he wrote:

of which bookes Tully spake in the last paragraph.

5 And his sonne Alexander.] Pyrrhus had by his first wife Antigone a sonne called Ptolomes, by Lanassa, another called Alexander, & by Bircanna, the third named Helenus. All which albeit by race & inclination of nature they were Martial, & Plotarch, in yet brought he them vp,& from theire birth framed & enured to armes. And the report is, when youn a time one of them, yet a chylde, asked him, to which of them he would leave his kingdome, to him, aunfwered Pyrrhus, who shall have the sharpest sworde: h Iustin also makes mention of these three sonnes. Ptolomey h walls ie, was Two at Sparta, as Iustin would have it. Plutarch saith he was staine in the way be- 11 has se- 10 twist Soarta of Argos. Alexander reigned after his fathers deceafe in the Realme of E. Plut, in Py pirus. That hee wrote Tacticks, I have not read, but in Alian onely.

6 And Evangelus | Plutarch discourfing of the studies of Philopamen hath this Dipacechillo s. in effect . " He tooke noe delight to heare al kinde of discourses, nor to reade al melluren in books of Philosophy, but such onely, as might profit to the daylie encrease of Philosophers. vertue, And hee read not willingly other passages of Homer, then such, as hee thought had some efficacy to mouea mans hart to prowes. But amongest, and about al other readings, he specially affected the Tacticks of Euangelus: & like wife the histories of the exploits of Alexader the great. This is all find of the Tatiche of Evangelus I geffe notwithstanding, he was a choice author, because Philopamen had him in Such feeme; of whome the fame " Plutarch writeth: That Greece " 164. bore him singuler affection, as the last vertuous man, which shee brought

foorth in her ould age, after so many great, and renowmed Captaines of auncient time; and alwayes augmented his power, and authority, as his glory encreafed. In which respect a Roman, praising him, called him the last Gracian; meaning that after him Greece bred noe great, nor any personage in deed worthy of her.

7 And Polybius ] It is the same Polybius, whose History, so much as is extant, that excellent learned man I faac Cafaubon translated into Latin, and fet foorth 1600. For his life and worth refort to the preface of the Same Casaubon to Polybius his history. Hee had beene in Achaia, his owne countrey, Generall of the horse. Afterward being in displeasure with the Romans , hee lived long in prison at Rome : and was for his worth finally released by intercession of the greatest men of Rome : and became companion to Scipio Africanus the younger; with whom also he was at the siege and destruction of Carthage. His Tacticks, whereof Alian speaketh, are perished with other of his workes. Yet are there many passages dispersed heer, and there in his history, which argue his extraordinary skill in matters of warre. And it may feeme, that Alian hath taken much from him both for matter, and wordes.

8 Iphicrates ] Whoe will reade of Iphicrates, let him goe to 2 Amilius Probus, that writeth his life. His actes are also declared by Xenophon, and Diodorus Sicunation received lus, and Polyan, and Institut and deversorners, as they were included and was called out breathen their histories. Here, was estectued one of the best Generallis of his time: and was called out 479. lus, and Polyan, and Iustin and divers others, as they were incident to their generall Form the in by name by Darius King of Persia to bee generall of the Gracians, hismercenaries, in Islands 6 651 the warre, hee had against the Egyptians: His same and assimilation was see green limited to 651 the warre, hee had against the Egyptians: His same and assimilation was see green limited to 651 the warre, hee had against the Egyptians: His same and assimilation was see green limited to the same and assimilation was seen to the same and the same and the same assimilation was seen to the same as seen to the sa with Alexander the great, that when his sonne (whose name was also Iphicrates) with other Gracians were taken prisoners by him, for that they came embassadours into Persia to Darius, he not onely spared him for the love of the City of Athens, and for the remembrance of his fathers glory ( the wordes of Arrian) but held him about him in honour folong, as he lived, and after his decease fent his reliques to Athens, there to

be interred by his friendes, and kin (folk.

9 Posidonius the Stoick ] Posidonius in his time was a Philosopher of high renowne, and of the lect, that were called Stoicks. Tully citeth him often in his workes. c Tucul question In the second booke of Tusculan questions heerecounteth, that Pompey the great. on a time comminge to R hodes, was defirous to heare him. But vnderstanding hee was extreamefick of the goute, hee forbore not notwithstanding to visit him being a most noble philosopher: whome after hee had seene, and saluted, and vsed with honorable wordes, and told him, hee was fory, hee could not heare him discourse, you may, if you please, quoth Posidonius: and I will not suffer paine to bee cause, that so great a man seeke mee in vaine. Then, as hee lav in his bed, began hee gravely, and copiously, to dispute, that nothing was good, but that, which was honest. And when firebrands, as it were, of torment towched him to the quick amiddest his disputation, he broke foorth often into these wordes: Sorow, all this is nothing : Though thou trouble me ned Plin materal. ver so much, I will not yet confesse, that thou art of thy self evill. So Tully d Pliny like. wife telleth, that Pompey, after the warre of Mithridates, going into the howfe of Posidonius, a man famous in Philosophy, for bid his serieant to knock at the doore(as the manner was,) and the fericants bundles of roddes (faith he) were submitted to a doore by him, to whom East & West had submitted theselues. e Cicero de na. The same . Tully attributeth to this Posidonius the invention of a Sphere, whose particuler conversions did worke the same in sonne & moone, and the other fine planets, that is wrought by the motion of heaven every day and night.

The preparation of warlicke forces and division of them, and how they are armed.

#### CHAP. II.

T will then beginne with such preparations as are absolutely necessary for I fervice in warre, the forces whereof are of two fortes, the one Land forces, the other ship forces. Land forces are such, as fight on land: Ship forces fuch, as are ordered for fight in shippes vppon Sea, or Rivers. But the order of Sea service I will reserve for another place, and intreat now of things pertayning to Land fervice. The levies then for land fervice are either of those, that fight, and mannage Armes, or else of those that fight not, but remaine in the campe for necessary wees. They fight that stand ordered in battaile, and with armes [affaile or ] repulse the enemy. The reft fight not, as Phifitians, merchants, fervants, and other, which follow the campe to minister vnto it. Such as fight, are either footemen, or Riders : footemen properly, that ferue on foote. Of Riders, some vie Horses some Elephants. They, that vie Horfes , are caryed either one Horfe-back , or elfe in Chariotts. And thefe are the differences in generall. But in speciall the foote, and Horfe receaue many other divisions; onely the Elephants, and Chariotts, never varie. Footemen then are reparted into three kindes, one being Armed, another Targettiers, the third light, or naked. . The Armed beare the heaviest furniture of all footemen; vsing according to the Macedonian manner large, round, Targetts, and Ionge Pikes: 5 The Light contrarywise beare the lightest , having neither Curace , nor Greue , nor longe , or round Targett of any weight, but 6 flieng weapons onelie as 7 Arrowes, 8 Dartes, 9 Stones either for hand, or fling. To this kind is referred the " armour of the Argilos, who hath his furniture like to the Macedonian, but some thing lighter. For hee carieth " a little flight Torgett, 12 and his Pike is much shorter , then the Macedonian Pike : which manner of arming seemeth a meane betwixt the light, or naked, and that which is properlie called heavie : as being lighter , then the heavie , and heavier , then the light : and that is the cause, that many place it amongst the light.

The forces of Horse (which wee distinguished before from Chariotts) as being ordered in Troopes, are either 3 Cataphracts, or not Cataphracts. They are Cataphracts, that cover their cowne, and theire horses bodies all over with armour. Of not Cataphraits, fome are Launciers, some Acrobolifis. Launciers are such as joyne with the enemy, and fight hand to hand with the Lanne on horseback. Of these, some beare longe Targets, and are therevppon called Targetiers: Other fome Launces alone without Targets, who are properlie called 's Launciers, and of some Xestophori. 's Acrobolists on horseback are fuch as fight a far of with flieng weapons. Of these, some vie darts, some bowes. They vie darts, whome wee call 'Tarentines. Of Tarentines, there are two fortes; for some throw little 18 duris a farre of, and are termed Darters on horseback, but properlie Tarentines, others vie light darts, & " after they haue spent one, or two, close presently with the enemy like the Lanciers, which

wee spake of, and fight hand to hand. These in common speech are named light horsemen. So that of Tarentines some are properly called Tarentines. whose manner is to darte a far of. Some light horsemen, who joyne, and fight hand to hand. 20 The horsemen that vse bowes are termed Archers on Horse. back, and of some Scythians.

These then are the differences of such as are in the Campe, the kinds of Souldiers being in nomber nyne: Of footmen, armed, Targetiers, Light armed, or naked : Of horlemen Lanciers, Darters, Archers, Cataphracts : And laftlic

Chariots, and Elephants.

#### Notes.

TX this Chapter the kindes of Souldiers are distinguished according to theire feueral Larmes borne in fight. And therefore of foote some are called armed, because there beare heavy armes; other light-armed or naked, because they weare no defensive armes, other some Targetiers, because theire chief defence rested in a slight target, wherewith they covered theire bodies. The horse also have theire appellation, as theire armes are And some are Cataphracts, because themselves & horses were armed compleatly other Launciers , for that they wfed a launce : other some Acrobolists , by reason they fought with flieng weapons a farreof . The first thoughts of a Prince, or State, that is resolve ved to put an army into the field, ought to be to provide armes. Armes are the fecurity of theire own fouldiers, the terror of the ennemy, the affured ordinary meanes of victory. The antiquity of armes is all one with the beginning of warre. For when of aun. cient time mighty men puffed up with pride, and led by ambition, fought by violence to enlarge their empire, and to bring under Subjection their bordering neighboures, they were enforced to flye to the invention of armes, without which noe victory could bee obteyned. Since, armes have been taken up for defence also, necessity, the mother of artes, inventing ameanes to withstand ambition. As Antalcidas wel obietted to Agesilaus being wounded by the Thebans; you are well rewarded for your labour. quoth hee, fince you would needes teache the Thebans to fight, that had neither will, nor skill so to doe. For the Thebans being put to necessity of de. fence grewe warlick through many invalions of the Lacedemonians, faith a Pinarch, in A. a Plutarch. Whoe were the inventers of the seueral pieces of armour, and of the diners kindes of weapons vsed in old tyme, may appeare by the relation of b Pling in his natural history. This is certeyne, that the most warlick nations, and most victorious have alwayes sought to have advantage of their enemies by advantage of armes. The end of armes is either to defend, or assault. Hence are armes divided into two kindes : Defensive, and Offensive. Defensive are those, which are worne to relist the force, and charge of the enemy. Of this fort arethe head piece, gorget, curace, vambrace, gantlets, tales, greves, and target. For whereas there are eleven partes in man, the woundes of any of which bring with the undoubted death (as some authors write) the braines, the two temples, the throate, the breaft, the belly, the two muscles abone the two elbowes, the other two about the knees, o the privy members pierced with a thrust: the headpiece ferveth for the defence of the braine, and temples, the gotget for the throate, the curace for the breast, the vambrace for the muscles of the armes, the tales for the privities & belly, the greves for the muscles about the knees, and the target for further affurance of the whole body, being moueable against all strokes, and profers of the affailants. Offensine armes are such, as men endevour to wound, or kill withall : as flieng weapons of all kindes , arrowes, stones out of slings , or the hand,

fword s, pikes, partizans, javelines, and the like. But as defence, and security of a mans felf u more agreable to nature, then to hurt an enemy, fo are the defensive armes a Plain preferred before the offensive, in that they bring fafety to him , that beareth them, where place as the other are imployed in announg the enemy onely. The Poets fett foorth theire bravelt and valiantest men alwayes best armed for defence. So Achilles in Homer, and Aneas in Virgil, are armed to point with armes wrought by Vulcan, to the end toremaine untowched amiddest the stormes of theire enemies weapons. The Gracian Lawgivers junished that souldier, that in fight cast away his target: not him, that lost his Sword or pike. Plutarch writeth, that at such time as Epaminondas affaulted Spar - Acciso. ta (the mift warlicke City of Greece) there was in the City a Spartan named Isadas, who was the some of Phabidas, hee that surprised the Castle of Thebes called Cadmaa, and thereby stirred up the warre between the Thebans, and Lacedamonians, & ruinated the principality of the Lacedamonians in Greece. This man being in the flower of his age, and personable, and large of lymmes, ranne foorth of his howse all naked, his body annointed with oyle, without apparaile or armes, except a fword in one hand, or a lavelin in the other; and breaking through the throng of those, that fought on his side, came to handes with the enemy, and overthrowing some, and killing other some, continued the fight, till the enemy was repulsed, and at last returned into the City without wounde. The chief magistrate understanding hereof rewarded him with a Crowne for his valor, but yet fined him at a hundred drachmes, for that he durst veter to fight without armes Drachmes defensive; judging it a matter almost impossible, that a naked man should escape with life that a should 

In armes was required, that they should bee strong, that they should bee fitte, that are as they should bee comely; strong to protect, or annoy, fitt to sette close to the body and bee manageable, comely to grace him, that beareth them. That defensive armes ought to be strong, may bee shewed by the end of armes : which is to saue harmlesse against arrowes, dartes, and other offensive armes of the enemy. If they faile of this end, they are of noe vse ; it being better to be waarmed, then cary armes, that will not defend. Without armes you have the body free, and at liberty: carieng armes, though never fo light, they must bee a cumber to you, and some what hinder the motion of our body. Armes therefore ought to bee sufficient to resist the weapons of the enemy. The inconvenience of defective and weake armes is well noted by Vegetius. From the building of the Ci-c vegetius ty of Rome, faith hee, till the time of the Emperour Gratian, the foote armed Assubate theire bodies with Cataphractes, and head-pieces. But when field exercise at mour of th: ough negligence and flouth was given over, armour began to growe heater the true that vy, because it was fieldome put on. They made suite therefore to the Empe-what that a rour first, that they might leaue of their Cataphractes, then, their headpieces. So our fouldiers encountring with the Gothes, were oftentimes wholy defeated and slaine by the multitude of their earrowes. And a litle after : fo cometh it to passe, saith he, that they, whoe without armes, are exposed in the battaile to woundes, thinke not fo much of fight, as of running away, Tet must wee not imagine, that those souldiers fought in theire ordinary apparaile onely : 1 enclinerather to the opinion of & Stewechius, whoe holdeth, that they tooke themselves to & seweching theire military coates, called in Notitia vtraque, Thoracomachi: and to theire & Notitia vtraque, Targets; This Thoracomachus to us a garment invented long before Gratians time, and Occident in worne under the armours of the fouldiers, and was a kind of felt, but being noe profe against arrowes, and theire targets not sufficient to cover their heads , and whole bodies from arrowes, They were obnoxius to the shorte of the Gothes, and received those overthrowes Vegetius speaketh of.

The

The matter whereof frong armes were made, I find to bee divers. Some were forged of security of Steele: as the armour of Goliath, and the head-piece of K. Saul. For it is not there fitte downe, what his curace was of Norwithstanding it is likely, it was of the same matter, of which his headpiece was made. Whe I fay these armours were of Steele, I follow therin the indgement of Tremelism and lunius, whoe fo translate it; & with them also agreech Vatub.us. For the old :rallation hath, that they were of braffe: I have not elfe where read of fleele armour. And it may bee, shat the old translation had an everyon the verge of auncient time, wherin the matter of armes was principally of Brail's. Homer reporteth that Homer Blad, the armour of Diomedes was of braffe : Paulanias, that all the Heroes (that is the b Paulan in la aunciet worthies about the time of the flege of Troy bad their armour of Braffe. Alcaus e Atten a pro. the Poet in describing his armory faith, the rest of his armes were of brase, as his head-Gept. 1814 A pieces, bis greves, bis Targets, only bis Curaces were of linen. Paufantus reporteth at so that the sword of Memnon was of brase, of the head of the speare of Achilles of Pisan-Livy 151, 27 ders axe, & the head of Meriones his shafte . Servius Tullius in sessing the City of Rome, appointed the chiefest & richest Citizens to arme themselves with headpieces, greves, Cuf Neco la Ren. race, & buckler alof braffe. The targets of the Lacedemonians were of braffe aloby the inflitution of Lycureus. So that brafe was much veed in armes in the oldest times. And where Alexus speaketh of his linen Curace, I find that Curaces of linen were inrequest also eve in those times. Homer affirmeth that & Aiax Oileus had a tinen Curace. h But afterward Iphicrates the Athenian held them fo good, that he gave them to his feuldiers to breare, in Rede of their v fuall armes made of iron & braffe and Konophon armeth & Abradates the K. of Sufe with a linen armour, adding that it was the manner of that Countrey And Plus k Flora ch. in tarch sith, that k Alex. the great, after he had gotten the victory against Darius in Cilicia. found emogest the spoile a line armour , which he afterward wed in the battailes, he fought. Patricius is so confident in the strength of a linen armour of his o we device, that he donbteth not to preferre it before well tempered tron. What his invention is, he keepeth to himfelf for feare the Turk should have intelligence of u, & so Christianity bee driven to an exigent. Almen knowe, that the temper of an iron armour may be fuch, as wil refel the violence of a musket shorte, and that at a neere distance. Reither is this temper the invention of our day es. The like hath been of suncient time. "Plutarch Wriseth, that Demetrius be fieging Rhodes, was prefinted with two iro armours brought out of Cypru either of the weight of 40 pounds The maker of them, whose name vas Zoilus, desirous to he we their strength & firmencfe cansed one to be fet up at the diffaunce of 16. paces, and bee shorte at with an arrowe discharged out of a Catabult. The armour hitteremayned unpierced, nothing appearring vpo it, but the rasing, as it were, of a peknife. And that a Cataput is of more violece, the amufact the effects thereof declared in history make plaine. Whether alinencoate be of that re lift ance, or not hash not been yet tried. Nay the contrary hath been tried. For Alexander at a siege of a City of the Mallians as I take it) was fore wounded with an Indian arrowe through an armour of linen. Whose armour I would judge to have beenenot of the stenderest, and weakest, but of the surest kinde. Yet is it not to bee passed over that In as Lipfins alleageth ont of Ricetus Choniates concerning alinen armour of Conradus of Monand the off ferrate: "Conradus, faithhee, fought then with out a target, and in fleede ofa Curace hee had on a woven weed made of flaxe, foked in fowre wine, well falted, and often-folded. It was fo fure against outward force of firokes, being fulled with wine, and falte, that it could not bee pierced with iron or feele. This invention our age hath not beene acquainted with : Whether it bee the same, that Patricius airrethat, let experience indge. That antigung practifed it in Wood, Plung Witnefeth, Who Writing of Wooll and Weollen garments faith; Of wooll wrought and pressed together by it selfer

alone (I think as our hatters worke felt) a garment is made; & if you worke it with vineger, it cannot bee strooke through with a sword. This wooll so wrought, he calleth coactam: which to Cefar, as I take it, is called Subcoactum. Cafars wordes found thus : " Pompey , although hee had noe purpose to hinder a Cæfars workes with his whole army; nor yet to hazard battaile, fent not withstanding archers and slingers, of whome hee had great store, to convenient places; and by them many of our fouldiers were wounded; & a generall feare of arrowes fell ypon them; and well nigh our whole campe made themselues coates and cafes of either felts (fubcoactis) or quilts, or leather, thereby to avoide the daunger of flieng weapons. But wee will leave Patricius to his fancy, and adde an example out of Xenophon of armes wied by the Chalybes, a nation inhabiting the Chaldean Mounteines. b The Chalybes, faith hee, were the most valiant nation, that the Gracians passed through, & such as durst come to handes is with them. They yield linen Curaces reaching downe to their e bellies, and. ear in fleede of winges, they had roapes thick woond, and fastened together. the The strength of rouges thick wound togither must, not question; bee great. Casar bot confirmethit. Emongest other defences, which his souldiers denifed for assurance of aTurret against the Engine of the Marfilians , bee faith : They made foure Ro. ries of Cables fitting the length of the walles of the Turret, and foure foote broade, and fastened them hanging downcward to the beames sticking out of the Turret on those three parts, which lay toward the enemy; which kinde of covering alone, they had in other places made triall, could bee forced or Prooken through by noe milliue weapon, or Engine what foever. This, I have beard, was the device of the Spaniards in 88. to defend their ships against the fury of our artillery. Whereof 1 may inferre, that if Cables combined to gether bee of such assurance against Engines, roapes thick layde and fastened together must bee a strong defence a. gainst a sword. To end with the matter, whereof armes were made, I find likewife, that the Macrones vied, in feede of Curaces, coases made of haire. And thus much !! of the matter of Armes.

Besides, armes should be fitt for the body, and for the strength of him, that beares them. When David was to fight against Goliath, K.Saul, seeing him without armour, caused .. his owne head-piece & curace to be put upon him. David affayed to marche, but finding thefe armes to heavy was faine to leave them, and to goe against Goliath what med, Saul was the tallest man of his nation, David but meane of stature, & to put armour propor- s ca tioned to a large body upon him, that is a great way leffe of members is as much, as to deliver him bound to his enemy. Xenophon emongest other causes, who the Lacedamonian borfe were beaten by the Thebans at the Leuctrian battaile, alleageth this for amaine eaufe. That the richest men kept & furnished out horses, & as often as musters exwere take, the man, that was to serue, shewed himself, & answered to his name, & receiving horse & armes, such as were given him, was so led against the enemy. They were beaten, faith Xenopho, receiving horse & armes at al adventure, not knowing, whether they were fitt for fervice, or not. Whether armes be to bigge or to litte, they burt a like. To litle, they pinche the bearer, es make him not able to endure labour; becaufehe is in paine: To great, by theire flap and loofehanging about the body, they hinder the motion of those partes, that are to be imployed in fight. Being sitte they differ little from ordinary apparaile, except it be in weight: which inconvenience is eafily remedieaby we and practife. Tuly driteth of the Roman fouldier , that his continually fe of armes was fuch, bei that hee noe more reconed his target, fword, head-piece, & other armes to bee burdenous vnto him, the his shoulders, armes, & hads, & said that armes were

part of a fouldiers body being fo fitly made & borne, that need requiring, they could throw down their burdens, & vie their ready armes in fight, as the members of their bodies. Yet must care be had, that theire weight exceed not the frength of him, that beareth them. For who ewil be able to continew long in fight, that befide the labour of fight, is charged with a burden more, then he can well bear? I he proofe is plain in Melian esp. 12 beaffs, which how strong soever they be, faint of tire under to much weight. . Alian af. ter, speaking of the length of pikes, giveth this rule, that they bee noe longer then a man may well vie. & wield in handling. To much length maketh them to heavy, & unfitte to be managed wher by they reft univolvable to offend the enemy. In this property of fine fe thate armes is we spons are compreheded, which are of melt wie in the field. For as in all other artes thinges of greatest effect are always praferred fo is it in warr. There is great advantage in armes, which is the cause that one kinde hath been preferred before an other. Emilius Probus giveth anotable testimon, of skill in matters of warre to Iphib Aemi probin crates, of whom he writes thus: b Iphicrates the Athenian invented many things in the action, who in warr. Hee chaunged the armes of the foote: For whereas before they yield great targets, short pikes, & litle swordes, he gaue them litle round targets, cal-Icd Pelte, that they might be fitter for motions, & encounters, and doubled the fife of their pikes, & made their fwordes longer. Hee likewife chaunged theire Curaces, & in stede of iron, & brasse, brought in other wrought of linen, wher by he made them nimbler at all affayes. For leffening the weight, hee brought to passe, that they as much covered the body, and yet were very light, and fitte for vie. Of these targets, which Iphicrates invented, the names of Peltate (Targetiers) sprong : of whom wee shall heare more in this chapter. And yet wee must not heereof coclude that Iphicrates changed all the armed foote into Targetiers (for the e Rooms. has Athenians had still their armed notwith stading this invention of Targetiers, as " Xeno-ciac. as a U phon testifieth) but where as the Athenians before had no etargetiers of their comme people, (as I coniecture) Iphicrates brought in this kind of armour : and so of the armed, hee made some targetiers, & left the rest to the armes, they bore before indiging it more prosia Proc. in Phila made Joine Lingerters, & left the reft to the armes, they over vejore imaging it more proji-Polya La in the table to have both Targetiers, & Armed of their owne people, then armed alone, a Philoloram & ; Pau pamen also the brane Achean Generall taught his Countrey-men in stede of longe targets & lavelines to take around target (called Aspis) & a pike after the Macedonian maner. and to arme themselves with head-pieces, Curates, & greues, and to settle themselves to a staid, and firme kind of fight, in lieu of concur fory, and peltasticall encounters, and by this meanes brought the to be valiant, & brave fouldiers, & victorious in their fights again f e Pobb 1 2.122 their enemies. Polyb. discoursing of the Gaulois & Spanish swords of auncies time, saith, 6.16. E & Eb . that the Gaules fword was fo fashioned, that it served onely to strike with, and but for one stroke: after which it so bowed both in length & breadth, that vnlesse the point were rested vponthe grownd, & the blade rightened, you could not strike with it the second time. But the spanish sword was both for thrust & stroke, having a strong point, & a stuffe & sure edge to strike withal on either fide by reason of the firmnesse of the blade. This difference the Romas elpied, and being excellent imitators of all thinges, which were best for vse (though they were enemies from whom they tooke them,) made choice of the spanish & Swam is more fworde, or after Annibals time caused their foote to we noe other. Suidas witnessethit: The Spaniards, faith he, in forme of swordes farre excell all other nations. For their fwords both have a strong point, and an edge on either side, that entreth deep in firlking. Which caused the Romans, to lay down their owne countres fwordes, and take the spanish forme from them, that followed Anniball. The formethey took, but the goodnesse of the mertall, & exactnesse of the temper

they could never atteine vnto. The Romans then rejected the french swordes, as of Small ofe, & imitated the spanish, because they were fits for service. Xenophon describing the nations which followed Crafus against Cyrus, theiremanner of arming, and order in bastatle, telleth of the Egyptians, that they were armed with targets reaching downe to a Menoph, Cyr. theire foose, with long pikes, or with swordes, which they call Copides, of for order, food bos were theire foote, with long pikes, of with sworders, which were a hundred in depth, of bringeth in Cyrus deriding this manner of arming, and order, to freede a line his souldiers, surged they were a like armed, a like embastailed. For their etargets, said he, pomes, her his souldiers, surged they were a like armed, a like embastailed. For their etargets, said he, contain 1975 are greater then is fitte for action, o for fight, o being raunged a hundred deep it is manifeit, they will hinder one another in fight, except a fewe b Annibal, after his first victory b polvb lib 17 against the Romas, ar med his Africans (his best & most trusty (ouldiers) with the armour PAS 761 C of the flaine Romans because he found it better then his owne: & Pyrrhus veed not onely the armour, but the Italian foul aiers also: & raunged them a cohort & a Merarchy, alter natively one by another. And Mithridates after his experience in his first warrs with the appropriate Romans, that as vell in arming, as in manner of fight, they excelled all other nations, left will the arming of his owne Countrey, & brought in the Roman foor d, target, & reduced all as neere, as bee could unto their discipline. So then ftrength & fitneffe are required in armes. To them is comelineffe adjoyned. The shield of Achilles how was it bowtified with pictures & Stories by Vulcan: and that of Aneas, comming out of the same forge, how glorious was it! To fay nothing of the brane armes of Hector, Agamernon, Diomedes, Glancus, Turnus, Mezentius, & other d Alexanders armes were very rich Ho had a & Plus in Alex Sicilian Cassock gyrded vpon a double lin n Curace the spoile of Isles: his headpiece was of iron, thining like pure filver, the work of Theophilus, about his necke was an iron gorget befette with precious stones. A sword hee had of wonderful temper & lightnesse, the gift of the Citiean King. Hee wore a baudricke of prowder worke, then the rest of his armour, the work of the elder E. licon, & the honour of the Rhodian City. \* And Cyrus the elder, that lined before exempt Cyrop Alex time, had armes provided by his Grandfather Astrages both very faire, & fitte for the 1.2 C his body. Abradates the Suli in king had his headpiece of gold, & vambraces, and fxenoth crops bracelets about his wrests, & a purple Coate, and a plume of hyacinthine seathers. Neither did this bravery rest emongest the Princes alone. The fouldiers of Cyrus were furnished with the same armes, that Cyrus himselfe bore, with scarlet a connection coates, Curaces of biasse, brasse helmets, white plumes, fwordes, & euery one a horard property of the coates of biasse of biass darte. They differed onely in this that their armes were guilded, Cyrus his armes shined, & had a reflexion, as it were, a looking glasse. And a Alexan, hea- h Cortins like ring of the riche armour, the Indians bore, to make his owne fouldiers equall salven-argedes. with the in bravery, whom they exceeded in valor, caused theire targets to be plated over with filver (whereof they were after called Argyraspides) & their horse-bittes to be made of gold, & adorned theire Curaces, some with filver, other with gold. This might feeme pompe & superfluity in a yong King were it not that the like was done by other the greatest Generals of auncient times. Cefar may ferue for an i Plotarchin example for al, whose souldiers how gallant and braue they were, Plut testifieth in his life. The Romans otherwise much addicted to frugality, allowed yet liberally ornaments to the honouring of worthy fouldiers, rewarding them for their fervice, with rich trappings for & Plinius hillor. borles, chaines of gold bracelets, crownes of gold of other honors; which they were rot on- volybild on se ly in the field, but at al other folemnities & meetings in the City. And for every common B.C fouldier they provided plumes of purple, or blacke fethers, every one of a cubit long. Of which plumes Polyb. giveth this indrement : Pluimes, faith hee, being added to the rest of the armour maketh a souldier seeme twice as great, as hee is; and beside the faire shewe, they make, they are terrible to the enemy in fight. A man may feeme as light, as a fether, that discourseth of plumes, & fetcheth ornament from fethers.

the meaning of the Oracle was not of Cockes, but of men, that, wearing some ornament on their heads, had a resemblance of Cockes, waged a multitude of Carians against Temen. thes, by whose help he overthrew Tementhes in battaile, & possessed himself of the crown of Egypt. Now for the true end of fouldiers ornaments I wil onely adde one example. Philopamen the Achaan in reforming the abuses crept into the Achaan State with great e Phin in Philoro in degement (I mill r se the wordes of Plutarch, ) reduced to order theire delica-& idle defires, wherewith they had of long time been poffeffed, delighting in excesse of apparaile, in riche dyes of coverlets, & carpets, striving one with another, who e should be most sumpruous in bankets & feastings. But by little & litle beginning to turne theire thoughts from vnnecessary expences to a loue of comeline se in thinges, that were profitable & honest, he brought them at last to leave the expences of the body, & to shew themselves gallant, & brave, in soldierly, & warlick furniture. A ma might therfore have seene the shoppes full of filver and golden cuppes cutte a pieces, of curaces guilded with gold, of filvered targets, and bittes; the places of exercise fraught with colts then first backed for fervice, & with yong gallats managing their armes, & in the handes of women head-pieces adorned with divers-coloured trymmings, horiemens coates, and fouldiers cloakes curioufly embellished with flowers. For the very fight of these things both encreaseth Spirit, & stirreth vp desire, & engendreth an vndaunted boldnesse, and alacrity to daungers. In other shewes to much lavashing bringeth in effeminatenesse, & worketh a remissenesse of minde, the fence with vaine pleasings and ticklings subverting, as it were, the vigor and force of the vnderstanding. But in these the Spirits are much heigthened, and exalted. As Homer bringeth in Achilles at the very fight of his newe armour ravished and instamed with a defire to bee doing with it. Thus garnishing the youth hee exercifed & hardened them to laboure and warlicke motions, making them thereby to undergoe with defire what foever they were commaun. ded. So farre Plutarch. Out of whose opinion it followeth, that Bravery of armes rai-Seth the spirits, stirreth up desire to fight, maketh the souldier bold, and cherefull to perills, and as Polybius holdesh pleaseth she sight, encreaseth stature in shewe, and is a terror to the enemy. Tet ought there therein a meane to be sought, & rather an assuraunce follo-

wed, then vaine gazing and oftentation. Antiochus being to fight with the Romans ga-

thereda mighty army together. And feing them glitter with gold and filver, and with

all excesse of bravery, as the manner of the Asiaticall people was, tooke so great delight

therein himself, that calling Anniball unto him, hee shewed his troopes, and deman aded,

if hee thought not that Army Sufficient for the Romans: yes quoth Anniball, though

they were the most coverous people in the world. Anniball with good reason derided the

vaine fhewe fitter for a mall then a field mlieb La Co

were richly trapped and garnished. So farre Plutarch. The fouldiers care there. for constitute to be first for surenesse, then for situesse, lastly for comelinesse and ornament in armes. If the two first fail, the last availeth litle, and will proue rather a burden, then a defence. And thus much of armes in generall: Nowe followe the particulers of armes, as they are in Alian. Preparacions absolutely necessary for warre] The preparacions, whereof Eian heak th, are fo necessary, that without them noe warre can be made or continewed. For purposing to fight by water you must have shippes, by land, you must have foote, and horfe. For which, if you poulde noe armes, you put them into the field not to fight, but to bee flaughtered. The manner of fight in the field is not of one fort. Some time celerity is nee If all, to attempt or prevent the enemy: sometime a slowe and sure proceeding, lest, with to nuch haft, wee be overtaken our selves Therefore the divers arming of souldiers, ought to be such, that they may forue for all occasions, and ves, and that wee may employ alwayes to service such, as by reason of theire armour, shall most fitte our purpose. Wherefore Iphicrates fittly resembled an army to a mans body: calling the heavy-armed the a Plumeth in Pebody, the light-armed the hands, the horse the feete, and the Generall the lorder Power L head: and as, if any of the rest were wanting, the army should bee lame, and halted, so Leve 200 \$ 100 if there want a Generall, it is un profitable, and of noe ve. The heavy armed are the body. which give life and foode, as it were, to the rest: and to which the rest being districted, retire. The light-armed are the handes, which uppon every occasion being put out to gr pe and take hold upon the enemy, are drawen in againe, when it is expedient. The horse, as feet, moue with celerity; the Generall is the head, that ruleth, that Watchesh, that careth for the rest, directing the times of their emotion, and of their rest. So then the Whole force of the field confifleth of horfe, and fooce. And the foote are reparted into three kindes. Armed, Targetiers and light armed Thefe fewerall kindes of fouldiers were essed by alche Gracians, especially by the Minensans, Lacedamonians, and Thebans, Whoe & Thursdible. Were the mightieft, and the most warlick people of Greece. Alexander had them in his army against Darius. When Alexander, faith Arrian, came to the place, where caminaliant

inallimords, and caused long neavy targets to bee framed, and choic horses, rather that were already managed, and made fitte for service, then those, that

Crus (with whom Xenophon was) encamped, and fawe the streights of Cilicia poff iffed with a strong gard, hee left Parmenio with the heavy-armed, to fray behind, himselfe about the first watch taking with him the Hypaspistes, archiers and Agrians, marched on toward the streights in the night. The armed Were left with Parmenion, himselfe tooke with him the Hypaspills targetiers ar-Chers, and Agrians : Thefe Arrians were durters on foote. The like is to be found a Arrian in 1.14 in divers other places of Arian e Pyrrhus allfo, that followed the Macedonian man- e Phorarch. in ner in arming his fouldiers, had the same division of armes. And Philip King of grave have

because it some what resemble th the Curaces of our time, I will reher se the descriptio out e Pavlania Pho of e Pausanias. There lay vpon the aulter, saith hee, a brasen Curace, the forme

whereof agreeth not with the vse of our times, but of old it was common. It had two plates of braffe, one fitte for the breft and the belly, the other to cover the backe. That before was called gyalon (the hollow part) that behynd Profegon (because it was added to the other.) They were fastened together with buttons behinde. It feemeth to bee a sufficient defence for a mans body with. out a Target, Therefore Homer maketh Phorcys the Phrygian to fight without a target, because he wore such a Curace. But yet, that it was not the manner of

the Macedonian armed to be are pike & target alone, may be plaine many wayes. First Polyen giveth them headpieces, & greves, and targets, and pikes. Then doubt I not but they were as well armed as the rest of the Gracians, within whose Panoplia Curaces were compr. hend das S. Paule sestifies h. rekoning as parcels of the Panoplia, a Curace, a tarf Dud woll lib arania) in the familia for the Macedonians had alfo their Panplia full or compleate

arming) is to be found in Diod. Siculus Where also Choragus the Macedonism (whom 2. Curtius calleth Horatas) is faid in the fight betwixt him & Dioxippus to be fully ar. ned. Leo describeth the Panoplia of the Macedonians after this manner. Alexander, fa: th hee, armed his Macedonians with a large target, a sword, a head-piece, greurs, vambraces, and a long pike. Philopamen (as is before reherfed) reducing his Mchann to the Macedonian arming, bringeth them to Curaces, bead pieces & greues. The b Placin Timol. names also that are attributed to the Armed, shew, they were otherwise armed. h Plutarch calleth them Pephragmenos, & Cataphractos as having their chodies all armed & opp [ th i Vegetti cano them to Euconi light or naked: And by Vegetius, the armour it self is named Cataphratta, k Nemph. Cyt. because the whole body is covered there with & Xen phontermeth them Thoracophoros bia-I viget. It is cap ring Curaces.) These are the strength of the battatie, and a strong wall or rather a furtresse n Died Siculto of the field to whom the light armed, and the horse also retire in time of need. As long as

a Livylio 5.248 So" Livy, comparing the armes of the Romans and Macedonians together, faith noe more, then, that the Macedonians were armed with a round target and a pike, the Romans with o Livy lib 1.27 along target, and a darte, called Pilum; when himself had before declared, they had headpieces, Curaces, and grenes. 3 Vsing targets after the Macedonian manner ] Targets were of two fortes, round targets, and long targets. Long targets were called Thureo, and were in forme

they fland, the field is not lost; being defeated the rest can make noe resistance. Being armed

with a fingle target without other armes , they incur the same daunger, that the Romans

in Gratisms time did, whoe for want of Curaces were entirly destroyed with the arrowes of

the Gothes. Wherefore it seemeth, A lian heer pointeth at the principall armes onely of the

armed Macedonian. For after ward discoursing of the light-armed, he saith, they neither had

Curace, nor greue, nor long or round target: implieng thereby, that the armed had them all.

pompe covered the targets of his fouldiers with plates of filver. But, that the ordinary Macedonian target was so covered, I deny. d Alian after calleth them chalce (brasen) a cap 12 not epichalce (covered with braffe.) Polyb. faith, that the Macedonians in the time of Bas 10.4511 K. Philip the some of Demetrius were called Chalcaspides (Erasentargetiers) not cpi- \$1320 chalkitai, by which name, as Hefychius hath, they were called, that had their targets covered with braffe. So like wife in the time of Perfeus. And the Megapolitans, who cimi folia in Acmilio tated the Macedonian manner of arming, are termed Chalcaspides in Polybius: I have a Polyblasso she wed that the Lacedononians had brasen targets by the institution of Lycurgus: 6 that, h know deep. in the time of the Heroes almost all armour was made of brafe. The targets of the Lacede. Power m Boo.

been able to have born them for the weight. I deny not, that in auncient time some targets

were plated with braffe: the rather, because I find, that Alexander to match the Indian

monians that were fitine at the battaile of Leuctra were braffe, and to bee seene in the time the 500 of Pausanias; and the brasen target k of Pyrrhus, Which he left at Argos, being there staine, k P utan in Co-Was kept in the temple of Ceres. As for the Weight, it is not so great but it may become light enough by wfe, and exercife. Wee fee iron targets in wfe at this day, and not hard to be borne. And albeit the weight bee not for every mans strength, yet since it bath beene, and is, the manner to make choice of fouldiers, and to fitte them with armes according to the ability of their bodies, I see noe reason, but the stronger fort might well bear them. Another fort of targets there was which differed from the Macedonian not so much in sorme of roundnesse, as in matter, and manner of carrieng. They were made of wicker, and borne in the left hand as

our bucklers, which wee a fed not long fince; and fome covered over with hides, fome not. Ixnophic xo. m Kenophon faith that Cyrus the elder armed the Persians with these Wicker targets: & relo m Kenoph Cyr.
ning up the nations through Whose Councries the Greekans passed in their returns out of Persia, & describing their armes, "reporteth that the Chalybes, Lauchi, & Phasians had targets a xenon de xoe. of this kinde. Now, that they were borne in the left hand is clear by the same Xenoph. Hee a Xenoph cyre. writeth thus of the fight betwirt Cyrus & Crafus: The Egyptians & Persians encoun. 10.7.177 E. tring together, the fight was hard, & sharpe: & the Egyptians as wel in number

as in armes, had the advantage. For they fought with stiffe, long pikes, & theire large targets better covered their bodies, then Curaces, or wicker targers, and being borne on their shoulders availed to joint thrusting foreward. Serring therefore their targets close, they advaunced, & ranne on. The Persians were not able to endure the shock, by reason they bore theire Wicker targets at the armes end, but retiring by litle, & litle, & giving, & taking blowes, they mainteined the fight till they came to the Engins. So farre Xenophon. Out of which words a man may plainely understand the manner of bearing these wicker targets, which by rea-Son of lightnesse might easily bee held out at armes end. And as the Egyptiantarget , which reached downe to the foote , must needes bee heavy , and therefore had

need of the shoulder to support it , so was it with the brasen targets of the Macedonians,

the band, so sees. Of Polpax Helyenins fatto it is the handle of the target. O taketo Porpe in the same sence, making it the thing bearing up the targett into which 'a suidas faith, Porpax is it, that they hold the target by; which is called ochanes: & againe, that some take it for the band of the target; other some for the middel iron that goeth through the target, on which the fouldier taketh hold. So that both He fychius, & Suidas agree, that Ochanon & Porpax are sometime alone, and signify the handle of the Target. In e Handaus II. Which sence Herodotus & Pausiniastake Ochanon also. Hesychius surther interpreteth 100 an in Eli. it for the band of the target octions; which signification better agreet be with the meaning of Plutarch, who maketh an apparant difference between the reporting that Cleomenes taught the Lacedemonians to cary their targets, by the Ochene, not by the Porpax. When he faith by the Ochane, hee meaneth by the strappe, by which, being fastened about the necke, the target is throwne over to the back, & resteth v pon the left (houlder. That, which I say, will better appeare, if we marke, what the Lacedemonian did before, & what Cleomenes advifeth them unto. Before they carried a speare in the right hand, and a target by the handle in the left, so that both their hands were ful The speare was not able to match the enemies pike R Photocolin vi (for & Cleomenes had often to doe With the Macedonian; & Achaems, whoe both refed pikes) & pikes, he Lacedemonians could not vield, with one hand; So then, to give them liberty of both hands, he counselled the to cary their targets at theire backs by the strappe or Ochane (Which was the Macedonian manner) and not to hold them any more by the Porpax or handle, and so to free their left hand so apply both to the menaging of a pike. This I take to be

the direct meaning of Plutarch: Cleomenes then personaded them to leave theire speares, & take pikes. And left the target in the left hand might prove an impediment to the vie of apike, hee thought best they hould cary them at their backe by the Ochane. To cary them then by the strappe at the backe is to give free vse to the left hand, without which a pike, specially a long pike, such as Cleomenes advised them unto, cannot be wielded : as experience will teache any man, that list to make triall. 4 Andlong pikes. ] Pikes for the most parte have beene called by two names by the Gracians; Doru, and Sarissa. Alian nameth them Dorata both heere, h xenoph de and in other places of this book. h xenophon, speaking of the weapons of the Cha-nac lybes, suith they had Dorata of is cubits long; armed with iron at one end onely. types, Jain incy nau Dolaca of 13. Donath of 19 Plutarch last recited where Cleomenes per swaded the Lacedemonians to change theire Dorata (speares) & Plat in Philo into Sarissas (pikes.) The like recountesh hee of & Philopamen, who chaunged

the speares of the Acheans into pikes, calling the speares, Dorata, the pikes,

Sarissas. And even in this place Alian termeth them not Dorata simply, but with

addition of Perimekestera, of along sife. And after describing the armes of the

Peltastes hee saith theire seares (Dorata) were much shorter then the pikes (Sarissa)

of the armed. Properly the pike of the Macedonian is termed Sariffa : if semetime

one of the Quiries of his stable, whoe had also broke his, and fought with the truncheon, and to have taken the launce of Divarates the Corinthian, and returned prefently to the fight, and therewith overthrowne Mithridates the sonne in lawe of Darius. Besides it is said, that the Macedonians had the advantage in weapons; Take it thus, that they fought with dartes against lavelins, what advantage had they? especially being come to the shock: Dartes are wied a farre of. Athand noe man figh. teth with them , unleffe hee have not other weapon. I thinke noe man will deny, but that a lavelin in closing is more advantagious then a darte. And that Xyston signifieth a launce Alian himselfe testisieth in this Chapter calling the laun. ciers Doratophori, or Xystophori. The Macedonian then had his horsemans flaffe of Corneil. Which Pliny affirmeth to bee a found and a fast wood. If b Piny one. his launce: aman may probably coniecture, his pike also, which exceeded the launce in length and thicknesse onely. Wee at this day preferre the Ashe before all woodes for toughnesse, lightnesse and beautie; especially if the vaine runnethrough to the end. Notwithstanding I finde in Cicuta a knight of Venice, an old souldier, and c Aurel, Cicuta a knight of Venice, an old souldier, and c dediciplinand, one that followed the Emperour Charles the fift in his warres of Africk, that the opinion ib. is it of his time enclynedrather to Fire, both for lightnesse, and strength. I have not seene the experience: therefore leave I the judgement to triall. Wee have then out of Alian that the armed, had both target and pike, that one man should at one time we both tar-

of Arrian whoe turneth Xystois Crancinois into Corneil dartes, whereit should

bee. Corneil launces. For in that place Alexander is reported to have fought

with a launce, and to have broken it in fight, and to have asked another of Arctes,

get, and pike in fight, against the enemy will seeme incredible in our dayes. Tet v sed the Macedonian (ouldiers both; at one instant they both charged their epikes, and covered themselves with theire targets against the flying weapons of the enemy. The manner was this : when they elosed with the enemy, they charged their epikes with both handes, and with a flight wrying of the body, and lifting up the right shoulder, whirled their target, hanging at their backe, upon the left shoulder, that stood next the enemy in the charge: and so covered all theire body to the midle, and beneath. I have touched it in the practife of Cleomenes. It appeares hmore plainely in Plutarch, describing the battaile beswixt K. Perfeus, and the Conful Amilius, Heehath this: d'The enemy approaching Ami-d Pharach in lius issued out of his Campe, and fownd the legionary Macedonians, bearing Academy nowe the heades of their pikes stiffe vpon the targets of the Romans, not suffering them to come vp to the sword: which when hee sawe, and sawe with all the other Macedonians casting about their targets from behinde their shoulders, and receiving the Roman targetiers with their pikes abased together at

one fignal, and likewise the firmenesse of the battaile shutte vp, & serred, & the

roughnesse of the front (the pikes lyeng out before) he became assonied, & af-

borroc. 6 Flyeng weapons onely] The light-armed are divided into three kindes, as necessary for the foreign the field (or that long after gunnes were invented) prefer. distinguismille Boninger. Archers, Darters, and Slingers. Which three kindes were of much viewmongest reth the English before all other, and setteth him downe, as a patterne for other to follow. And Patritius, disputing of the violence of arrows, doubteth not to affirme, that an En-b Pavit Parall, h Zemoch. Cyn. the Gracians, and they beare onely flieng weapons. h Xenophon testifieth that Cyrus the bonies, elder had them: And the Gracians in their ereturne out of Persia: Alexander had glish arrowe with a litle waxe put vpo the point of the head, wil passethrough 3 PS 17 pedilis 3 to B s them in his warre against Darius : and Pyrrhua in his warre in Italy, Sicill and Greece: & lib 3,116,4 K Arian Lib,1, \*\* The Gracians against Brennus King of the Gaules : \*\* Both the Athenians, & Thebans any ordinary Corflette or Curace. How foever the credit of howes is loft, at this prefent, with many great fouldiers, yet have they of auncient time been highly prifed, Vege. e vegallet a I Plurarch in At the battaile of Delos. tius saith; how great advantage good archers bring in fight, both Cato in his 15. bookes of military discipline doth shewe evidently, and Claudius, by aug-7 Arrowes] Archers have alwayes beene of speciall esteeme for the field, and pre-Ph. cas out. ferred before the other kindes of light-armed. Many nations have beene commended menting the number of archers, and teaching of them the vse of theire bowes, overcame the enemy, whome before hee was not able to matche. Scias B. The for theire skill in shooting. Emongest the Gracians the Cretans were (of auncient time) pio Africanus (the yonger) being to giue bittaile to the Numantines, sole archers, as Pausanias witnesseth. Tet was not theire service aquall with the serthat beforehad forced a Roman army to passe vider the yoake, thought vice of the Persians. For Xenophon confesseth, that the Persian bowe overreached the Cretan a great way: and that the Rhodians with theire sling owt-threw the Cretan bow. hee could not otherwise haue the better, vnlesse hee mingled chosen archers in enery Century. And Leo the Empercur in his Constitutions milita- a Leoups \$5.5 Of the Cardichans a people, through whose Countrey the Gracians passed at their re-P Nenoh de en turne out of Persia, Nenophon writeth thus : They caried noe other armes , then ry hath this Constitution emongest other . You shall comm un fall the Roman bowes and flinges. They were excellent archers; and had bowes well night youth, till they come to fourty yeares of age, whether they have meaneskill in thooting, or not, to cary bowes & quivers of arrowes. For fince the art of shoo three cubits long; arrowes more, then two Cubits. When they shotte, they drewe the string, applieng theire hand some what toward the neither end of ting hath been neglected, many, & great lo Tes haue befallen the Romans. And in another place : 'you shall enioyne the Communders vn der you, in winter to e tour it. the bowe, setting their eleft foote foreward. With their earrowes they piertake a view, and to fignify to the Turmarches (Coronells) how many horse, & 49ced both targets, and Curates. The Gracians putting thonges to the midwhat kinde of armes the fouldiers, under their commaundes, stand in need of, dest of their earrowes sent them back at the enemy in steede of Dartes. The a Diodor. Sicol. Same in effect is reported by Diodorus Siculus. Of the Parthian horsemen, Appian that necessary provision bee made, & the souldiers be furnished in time convenient. But specially you are to have care of archers, & that they, whoe remaine Saith: When Crassus commaunded the light-armed to disband, & goe to the charge they went not farre, but meeting with many arrowes, and being fore at home, & haue vacation from warre, hold bowes and arrowes in their howfes. For careleffnesse heerin hath brought great dammage to the Roman State. galled with them, they retired streight, and hid themselves emongest the armed, and gaue beginning of disorder, and feare, repræsenting to the fight of So L'o This of ould time was the opinion of the Romans concerning archers. Howe the rest, the force, and violence of the shorte, that rent all armes, they fell vpwee are fallen out with them in our dayes (the skill of the bowe, being a quality so compon, and made way aswell thorough bodies, that had the best, as the worst mendible, and so proper to our nation) I knowe not, unlesse fire-weapons perhaps have put them out of countenaunce. And surely it may not bee denied, that the force of furniture defensive: giving mighty and violent strokes from stiffe and great bowes, and forcing out the arrowe boilteroully with the compasse, and bent fireweapons of our time doth farre exceed the height of all old inventions for anoyeng the e Plearch in Of the bowe. Platarch hath the very wordes, that are in Appian. The Indians enemy. And, when I have given them the first place, I will not doubt to give the se. Curius lib. 8 also meregood archers, albeit not much praised by Q. Curtius, Hee faith: theire arcond to bowes and arrowes being so farre from casting them of, that I would rather follow the wisdome of the Gracians; who ealbeit they esteemed arrowes the best slieng wearowes were two Cubits long, which they deliver out of theire bowes, with pons, yet thought it not amise to hild in vse stinges, and durtes. Every weapon hath it more labour, then effect: for as much as the arrow, whose whole efficacy is in lightnesse, becomethaltogether unwieldy by reason of the weight. And yet property; and that which is fitte for one service, is not so fitte for another. The firehee tellerh, that Alexander, at the affault of the principall City of the Mallians, weapons have theire advantages; They have also theire disadvantages. Theire advantage is, they pierce all defence of armour, and lighting upon a place of the body the was strooke thorough his Curace into the side beneath the pappes with an Int Plua chin A. dian arrowe: with whome Plutarch and Diod. Siculus accord. Arrian addeth the wound whereof endaungereth life, they bring with them certeine death. Theire disadvantages are, they are not alwayes certeine, sometimes for want of charging, sometimes

fire v pon the enemy at once. For the re bentinde, discharging, shall either wound theire owne Companions before, or else shoote as randon and so no, bung endunger sheenemy, the force of a mu ket being onely an atleable at point blanck. Contrary infe the dif.d. vaniage of arrowes is in the weaknesse of the probe, which is not able to enter a Curace, that the fore or horse nower fe. Tet can noe weather bee founde, where in you may not have good ve of boves: rune, snowe, winde, haile, figges, hinder little efpecially the living of the boxe being not to Wette, may rather profit Because in them you can hard y differne, much leffe avoide, the fall of the arrowe. As for quicknesse is delin ery he bo de furre excelleth the musket. A good fing earther is able to give five hotte in exchaunge for one of the musketier; and that with fich cert, inty, that you had not heare of marches that miseth the delive y of his arrow, where the musketier, often fill th by re fro of the accidents and imped wents be fore by mee rehear [d. loine that a whole squad on of archers, being embassailed, may doute at once together : which onely the first ra ke of musketiers man doe. And make the case there were a hundred mus ketters, and thus deed bowe-men eche digested into ten fles, eche file contegning ten men, the bowe men shall bee able to shoote at once a hundred arrowes (all theire arrowes, for ten bullets given by the mu ketters, namely those tenof the first ranke discharging alone. It mul not bee pretermitted, that thebove and quiver oth for marching, & all fervice, are lighter and of life labour to fe, then a musk t, which is noe for all advantage in armes and fight. To conclude the bowe men may be eplaced behinde the armed foote, and a Plusiosylla, yet in shooting over the Phalange anoy the enemy before toyning, and all the time of fight, even whilest they are at pushe of pike; where the musketur, thereplaced, must either idlely look on, or elfe playing with his musket, most of all endaunger his owner friendes. Reither is the force of arrowes so weake, as is immagined, noe not in the arming of our dayes. For the pike albeit hee have his head and body covered, yet are his legg's, and feete, his armes, and handes open to woundes : any of which parts being wounded bringes a disability of service. To say nothing of his face, and eyes, before which the howers of arrowes falling like a tempest without intermission, must needes breed aremedilese terrour, and make him thinker ather of saving himselfe, then offending his enemy. The musketier being also warmed is as subject to the shotte of arrowes, as the archer is to the shotte of the musket; and the arrow touching any vitall parte, as much taketh away life, as doth the musket. Lastly a horse man for his owne person (I must confesse) is sife enough from the daunger of arrowes by reason of his armour but his horse, being a faire and large mark, and having neither barbe, nor pectorall, nor ought else to hide his head or breast, how can hee escape woundes? Witnesse our fieldes in France, where our Archers alwayes beate the frenche horse, being barbed, and better armed, then our horse are, at this day. And for the bloudy effect of bowes the story 6 Phareda in of Plutarch is morth the reherling. He in the life of Crassis hath thus: 6 The Parthians oppoling the Cataphracts against the Roman horse, the other Persians callog

and theire feete fullened to the grownde, whereby they were vnable either to fly, or fight. These wonders did the Parthian bowes, which notwithst anding were not to bee compared to our auncient English bowes, either for strength, or farre shooting. And that wee may not seeme to rely upon antiquity alone, 2 The battaile of Curzolare (com- 2 Paris, paral, mon'y called the battaile of Lepanto) fought in our dayes betwirt the Turkes, or Christia mil. fait, 21,29 ans by fea may ferue for an experience of the fervice of bowes and arrows. In which there died of the Christians by the arrowes of the Turkes above fine thowsand, albeit they were in gallyes and it ps, and had theire blindes pretended to faue from light, and mark of the Turks, where as the artillery of all forts of the Christians consumed not so many Turkes: notwithstanding the Christians had the victory. Nowe then for vs to leave the bowe, being a weapon of so great efficacy, so ready, so familiar, and as it were so domesticall to our nation, to which wee were wont to bee accustomed from our Cradle, because other nations take themselves to the Musket, bath not so much as any shewe of reason. Other nations may well for beare that, they never had. Neither Italian, nor Spaniard, nor Frenche, nor Dutche, have these fine hundred years, been accounted Archers. It was a skill almost appropriated to our nation. By it, wee gayned the battailes of Cress, of Poitiers, of Agincourt, in France : of Naverre, in Spaine : By it, wee made our selues famous over Christendome. Indto give it over upon a conceit onely (for noe experience can say that our bowe was ever beaten out of the field by the musket) will prouce an immitation of Asops dogge, whoe carieng a piece of fleshe in his mouth over a river, and seine the shadowe in the water, snatched at the shadowe, and left the slesse. I peake not this to a base the service of muskets, which all men must acknowledge to bee great; I onely shewe, there may bee good wse of bowes, if our archers were such, as they were wont: which is not to bee dispaired, and will easily come with exer. ن وانه Dartes The names of dartes are divers in the Greek Story. A Darte is often called Acontion: and thereof cometh Acontizo, to throwe a darte, and darters are called Acontific. So doth Alian herre terme a darte. Sometimes a darte is ter- b xenop decep. med Palcon of the verbe adaha figuifieng to shake or make quiver. The word Palcon is a Amillo 15th much wedin Arrian and Acoophon specially, when they speake of the Persian dartes, this is to this Tet Diodorus Siculus nameth the Persian darte Saunion: which name also is given e biod Siculib.

to 1 Grecian darte by Plutarch, and by the same Diodorus. Sometimes a darte is named 41 , 572 & lib. 14 Doration: Doru, is I faid, being a Speare, and Doration according to Suidas, a little to call page 1 Speare, or darte. Alian veel the mordin this Chap. Lonche, albeit it properly fignify ped Crississ thet head of speare, or darte, yet doth it sometimes signif, the darte it self, Soutta-resort ken in & Xenophon, when hee telleth, that flieng we apons began to wa'k on all fides, wirzen, pel Cyri bb. 5. (that is darter) arrowes, and stones out of slinges, and some out hands, And Dio. 152 C dorus Siculus hath h azerri gen ras hayyas, to throwe dartes, even in the actes of Alexan. h Diod. sicul li der. Tet wee find that speares were also cast under that name, and Xenos hon i Xonoph. Hat.

runoindo e jua opon. For the tength, I give, it aiffereth not from the Roman darte in Polybius: and Xenophon seem th to affirmett, when speaking of the arrowes of the Carduchans, 212 D. & Died backeagaine at the enemy in stede of Dartes. About the middest of these dartes

extense de exthey fastened athong, which was called a proper, wherein, inserting their eforefinger, they launced the darte with more facility. Xenophon witnesseth it in the same place, and in 4 Xenoph de ea. another place hee [atth, d Xenophon commaunded the targetiers to marche with 347 A. theire fingers in the thonges of theire dartes, the archers with theire arrowers. theire fingers in the thonges of theire dartes, the archers with their earrowes nocked, the flingers with their scryppes full of stones, that they might be redy to let fly, when they were commaunded. These dartes were forcible enough to pierce e Xenoch Hill armoures of that time, and that with them alone I phicrates overthrew and distroyed a whole Mora of the Lacedamonians, which people were accounted the best armed, and the most valiant of the Greekes before the Macedonians came in credit. 9 Stones.] There are heere mentioned two manner of throwing stones, the one with the fling, the other with hand alone, The stones, thrown with the sling, fly with much more violence, then the stones throwne with the hand: and, being cast with a skillfull and strong arme, they reache a greater way, then a man would thinke. And yet not fo farre, as

bullets throwne out of a sling, which by Xenophons report outreached the Persian arrowes. f Xenoph deer- I have before touched the flory. I will nowe lay downe Xenophons wordes. The Gracians (those ten thowsand that returned out of Darsamadout. ans (those ten thowsand, that returned out of Persia vnder the leading of Cherisophus, & Xenophon) had not marched farre, before Mithridates appeared againe with 200. horse, and 400. Archers & slingers, which were very nimble & light. Hee came close vp to the Gracians as a friend. Being neer, some of his horfe,& foote began to shoote, other to sling & to wound the Gracians. The reare Commaunders of the Gracians were hardly bested. Yet could they doe nothing to anoy the enemy. For the Cretans shoote not so farre, as the Persians, & carrieng noe armour of defence, they were faine to hide themselves with in the body of the armed; & the Darters were not able to reache the flingers of the enemy. Xenophon therefore having the rear, thought good to charge and follow the enemy. But hee was not able to overtake them, (for the Gracians had noe horse) & the Barbarian horsemen, shooting backward in theire flight, wounded many of them, that gaue the chace. To remedy this inconvenience Xenophons advice was to provide horse as many, as they could. And hearing, that there were many R hodians in the Campe, skillful in flinging, whose flings reached twice as farre, as the Persian sling (for the Persians vied Hones, that fil-

led the hand the Rhodians leaden bullets) hee likewise advised to arme them

with flings, and vse their efervice. The next day the Gracians furnished out 50

horse, & 200 flingers. And when Mithridates shewed himselfe againe with a

thowland horse, & foure thowland archers, & slingers, and came vp to charge,

both the Rhadian bullete links am an all

Diodorus Siculus writeth thus: Theire armor is three flinges, whereof they have one about theire heades, another about theire waste, the third in theire hand. In warre they cast greater stones, then any other, and with such force, that they may seeme to bee sent out of a Catapult. Therefore in sieges and affaults of Cities they wound the defendants of the walles, and in the field broake targets, and head-pieces, and all defensive armes. They ayme so certeinely at any marke, that they f idome faile in hitting. The cause is theire continuall practife from theire childhode, theire mothers continually enforcing them to fling, even when they are yet children. For fetting vp bread vpon a poste, as a marke, they are not allowed to eate, vntill they hitte it, and haue it given them by theire mothers to eate. So farre Diodorus Siculus: with whom I Vegetius agreeth. The fame Vegetius faith that flinges were made a vegetities either of flaxe, or of a hair, The forme was that it had two ends, the one fastened to e vegetable, so, the hand, the other to let slippe, being broadest in the middest, lest the stone should fall owte. Diodorus hath before expressed with what force a stone went out of a sting. We s vegal ap. 16 getius addeth, that they are more violent, then any arrowe: piercing head pieces, Curaces, and other armes. The fame & Vegetius limiteth the & Vegetacas space of theire reache to six hundred foote : and suth, that slinges at that distance were seene often to hitte the marke : and attributeth as much to archers. h There are, that affirme, that a leaden bullet fent out of a fling will melt with the wehe- h Oneland early ment motion of the give. Let the credit bee with the reporters. Wee have not found that experiences in our pieces, which notwithstanding force out theire bulles with fire, & that with greater violence, then any hand sling can doe. For stones to bee cast with the hand fee' Vezetius. Polybius commendeth the vee of them. i Vegetal a.c. 29 10 The armour of the Argilos | What this Argilos should meane, I see learned doubt, and I have little to fay. Whether it come as a diminitive from agres (forft) or from a City of Thrace, called Argilos, or from any other original 1 will not affirme. Heere if the text bee not corrupted, and the word except in, or exchaunged by the negligence of some copier, it must signific a targetter. Which Alians descripteon makethevident. That there was such a Ctty in Thrace you shall finde

lent in fl 13'n3. Of other nations none might compare with the Balcares: of whom sand

in k Thacydides. And that the Thracian foote for the most part were Targetiers, k Thucy 14.540 I remember, I have read in Xenophon. But then a quaftion may againe arife, 6215.356,0 scing the inhabitants of that City were not called argilioi but argilioi (for the City it self was called Argilos) why the Targetier should be called Argilos, and not Argilios. The chaunge is not great. Many fuch mistakings are to bee found in transcribing of Copies. But I thinke rather there is an errour in the text; and that for two causes. First because Alian dividing the forte into three kindes, Armed, Targetiers, and light-armed, and dif-

11 A little flight target called Pelta] The forme of this little target is diversly a sch. lish the expressed by divers Authors. The Scholiasses of Thucydides giveth it a Tetragorall Suntain Poles or four sided shape: with whom also immeth Suidas, 'Hesselm sidth, Pelta is a liste Herselm target having noc cir cumstence. meaning. I thinke, it is not rounde. Herselm target having noc cir cumstence. target having noe circumference, meaning, I thinke, it is not rounde. Hee faith al. Cott is a Thracian weapon: to both which significations Suidas agreeth. The Thracia ans vsed these kindes of Targets, and often sent these Targetiers to serve the Gracians. d Thurydib. 1. d Nymphodorus (seeking to make a league betwirt the Athenians and Sitalces King of Thracia) promised to procure Sitalces to send them an army of horse, and Peltasts (Tar. getiers.) Xenophon Speaking of the Thracians, that affaulted his lodging, telleth, that e Xenoph.deen e after the Trumpet sounded, and many of his souldiers came to his aide, the Thracians to Bed casting, as theire manner was, theire Targets (Peltas) at their backes. When r Kenopa. nut. Grze li 1, 48 B Dercyllidas invaded Bithynia, Seuthes the K. of Thracefent him horse and Peltasts (taigetiers) to his aid. But the Pelta, that Alian heere mentioneth, was rounde. g Suidas in In- & Suidas in the wordes, before alleaged by Lipsius, as out of Alian called this target Aspidisce: that is a little Aspis, such as the Micedonians bore, which were without all question rounde. The invention of this Pelta is attributed to Iphicrates the Athe. h Diodelical lin nian. h For whereas the Athenians before his time vsed larger ound targets (aspides) to be wielded, bring heavy, he provided them litle targets to make them light, and quick for all service. He altered not the forme of the round. i Aemil us Pro. nese, but diminished the weight, in abating of the breadth. Amilius Probus faith, but in Ispinituse. hee made them beare little targets (Peltas) in steede of large rounde targets (Parme,) where vppon they were ever after called Peltasta. The invention therefore of this kinde of Target is attributed to Iphicrates. For the litle targets of other k xenop, deer formes were long before the age of lphicrates. Cyrus the yonger had Gracian Targetiers pol Cyn. bb. 1, in his army: and the Gracians at theire returne out of Persia: and likewise those, that 1 Kenop, had the toyned with Thras fibulus to recover Athens out of the handes of the thirty Tyrants. All 5.14. A. B. h. 3. which were before Iphicrates time. Lipfius taketh the Pelta to differ litle or nothing b. E. m. Xcroph hillo. from the Parma velitaris of the Romans, which doubtlesse w is round. Polybius faith, gree h. i. 471. E the Roman horse-mens targets (Parme) were like to Cakes named Popana, left in 1. Come which according to P Suidus were broade, rounde, thinne Cakes. 12 And his pike is much shorter] If it bee as Diodorus Siculus and Amilius o polyb, lib. 6. P Sudmin Po Probus report, that Iphicrates was the inventer of the armes of the Targetier, the pike (hould bee liste florser, then the Macedonian pike. Hee gaue them little targets for great Targets, and doubled the length of theire pike, and fword. If the length of the pike were doubled, I cannot see, how it should come much shorte of the Macedonian Pike. But it may bee, they were long at first, and that afterward vse, and commodity brought them to a lesse sife, to the end the souldier should be enimble and ready at charges. But 9 Aemil. Prob, had the Poltalt noe other armes, then are heere mentioned. Hee had. And first hee had a linen Curace for lightnesse sake, and then a sword of double length to his former sword

aian of his deedes) I find noe Targetiers by the name of Peltalta in all his army. The names of Armed, of archers, of Darters, of slingers I meete often: but not of Peltafix. Which made mee once doubt, whether Alexander ever vsed them or noe. Since upon better consideration I am induced to thinke, though the name in the story faileth, Tet the kinde of fouldiers, so armed, and so appointed, as Elian describeth, may easily bee found : and that under the name of Hypalpittes. Which name albeit most usually signifie him, that carries another mans Target , yet is it also applied to souldiers , that are neither light, nor heavy-armed, of which kinde the Targetiers were, as a meane bet wixt both. That Hypaspistes significth nue heavy armed, may bee evident by the wordes of Arrian. Alex. ander, when hee sawe the streights of Cilicia possessed with a strong gard, left Parmenio behinde withall, that were heavy armed, himselfe about the first, watche taking the Hypaspista, and the Archers, and the Agrians (who were darters, as I have shewed) led on in the night toward the streights, purposing to fall vpon the watche, before hee was looked for. Hee left all the heavy-armed with Parmenio, and tooke the Hypaspista with him. And in another place hee faith: d Alexander commaunded the Hypaspista first to passe the river, and af-d Am, ib 17. A. ter them the Macedonian armed. Hee distinguisheth the Hypaspista from the armed. And streight after : e Three dayes after Alexander understanding that Cleitus & Glaucias were ill lodged with theire army, & neither held watche, nor had cast a trenche for theire owne security (for they imagined Alexander marched away for feare) and that theire Campe was firetched out to a needleffe length, secretly repassed the river a litle before night, leading with him the Hypaspists, and the archers and the Agrians, and the Phalanges of Perdiccas and Coenus. And in the same booke at the assault of Thebes, when Perdiccas bad engaged himselfe and brought Amyntas with his troupes in the same danger, Alexander lothe to leave them in hazard, advanced with the rest of his army, and gave a signe to the archers and Agrians to enter the trenche, the Agemata (Livy translateth them legions) and Hypaspists hee held without, So that in all the se places hee dislinguisheth them from the heavy armed, and makesh the Hypaspists one, the heavy-armed another. I might alleage other passages out of the same author, but these will suffise. That they were not of the light armed may bee proued by the same places of Arrian. Where they are al wates dislinguished from the archers and Datters, There targets make them unfit for slingers, and mention of flingers I find in other places. The very name she weth that they carry targets, and the great Etymologicon alloweth them spears beside their targets Whereby they are clearely exempted from the light armed It remainesh then, that they be the peltasta, which Elian heere speaketh of, especially since they were armed with target and speare, which armes hee giveth to his targetiers, and to no other, except it be to the armed.

13 Cataphracts The horsemen are divided into two kinds. Cataphracts' compleat

many other. In perufing the story of Alexander (in Arrian, the most faithfull histo-

latth, they armed there noties with frontiets and pectoralis & covers for there b xenorh deer thighes. As much hee faith of b the fix hundred ho, fe that follo ved Cirus the younger ped Crio, libri, against Artanernes, savingeshey Lanted couer for there thighes. The hir smenthemsclues he giveth great Curafies, and cuiffes, and head pieces. So it appeareth that the horse were not all over armed, but onely theire heads their breasts and there foreitighes. Tet Plurarch speaking of the Cataphrast in the time of Lucullus, faith, their etegge, and thighes were unarmed. Concerning the Parthians Suidas, I knowner out of What Suther, hath thus: The Curaffe of the Parthian horfemen is made in this manner: The part be. fore covereth his breaft, and thighes, and his hande to the fingers end, and his leggs. The hinder-part, his backe, and necke, and all his head. There are buttons made for the fides, with which both the parts being fastened, it maketn the whole horsemen seene, as if hee were made of iron. The iron neither hindreth the stretching out, nor the gathering up of his limbs, it is so exactly fitted to the nature, and sife of all parts of the body. Likewise they armetnere whole horse with iron, except his hooses, because their owne armor would little availe, in case theire horse miscaried. Cu tius discribeth the forme in the Perfian horsemen, those furniture, hee faith, was made of plate fastened together in · Applia Parts, continued dependances of seales of iron. ppian speaking how the Part' i ins feeking tottrrift Crassus, and his army , upon the sudd tine cast away the concers of their e armour, and both them selves appeared in Shining curasses, and head-pieces the Margian iron of which hey were made during forth a flashing, and dispear sed wink ing light, and their horses glissring in beafen, and iron furniture. Tes doth Appian in the sime pla enote, Appian in Dar that the bellys of the f. horfe, was not armed. For the french horfemen, faith he, that then 14 D. a followed young Craffus, when they perceived, how little they prevailed with theire staues against the sure, and unpierceable as mour of the Parthians, ligh. ting from theire owne, and creeping vnder the Parthian horses, stroke them into the bellys, and they inpatient of paine and flinging heere, and there, and treading under foote, as well their riders as their enemies, died in the place. Plutarch hath the like. The Cataphracts, besid: theire armour of desence, had a launce, or • Plutarch affirmes it : Lucullus , fatth hee , after hee sawe Tigranes his Cataphract horsemen (whoe were of most acount) defended, as it were, by a hill, that had the ground about plaine, and broade, & the afcent (which was about fower furlongs in length) not very hard, or steepe, commaunded the Thracian, and gaule horsemen, hee had, to give vppon the flanke, and to put by the launces with their fwords: For the onely strength of the Cataphract is his launce, and it alone hee is able to vice either in defence of himselfe, or annoying the enimie being by reason of the weight and harshnes of his furniture like a man shutte, and looked vp in a wall, Hesherto Plutarch. Like wife the Part's in Cataphracts, albeit they of above, and arrows yet they 1 2 min Anna had alfa launcae wich which which

and put the rest to flight. By the se two testimonies the launce of the Cataphrast is clearly proved. In what manner the Cataphracts came to fight, Nazarius (cited by Stewechius) sheweth plainely in a Panegyrick of his. The Cataphracts, faith hee, surrechium in in whome was the principall strength of the field, vsethis discipline in char-capacitab. 8. veging, After closing their efiles, they keepe an equalitie in moving forward to charge, & being free from wounds, they break without difficulty any strength of battel opposed against them. They are saide to bee free from wounds, because both themselves & horses (especially before) are covered with sure armes. Theire moving must be slow, because of the weight of theire armes, which slownesse was recompensed with the violence of theire charge, which neither horse, nor foote was able to resist. And yet a sopian in they had another incovenience, in that, being overthrowne, or slipping, or falling to the ground, neither horfe, nor man, were able easily to raise themselves againe. Such was the weight of theire armour. 14 Launciers are fuch] Launciers, faith Elian , ioine with the enemy, & fight hand to hand with the launce. And did not the Cataphracts for They did, but theire armour differed much. The Cataphracts both horse, and man, were all over armed. The horse of the Launciers was not armed, and himselse, albeit heewere armed, yet not so armed, but that many parts of his body were bare of armes. And his armour came much short of the compleate. Arrian saith that the Macedonians being launciers were not able to encounter with the Scythians, whoe were Cataphracts, both because of theire num.

taking in hand their elaunces, ranne uppon the Romans, who e giving a jointe

showte sprung vp presently, and striking them with their darts, slewe the first,

ber, and also of their emanner of arming. And as the Launciers armour was not so heavie, as the Compleate, so was it more heavie, then the armour of the foote. Kenophon seemeth to signifie so much, telling of himselfe, that taking the targetiers of the front, and some out of the midst of the hollow square battaile, and three hundred chosen men, that Cherisophus had with him in the front, hee marched away with all speed to seife upon the toppe of a certaine hill. b And exhorting beauty it his fouldiers to hafte, you may well, quoth Sotridas, the S cionian, talke of

haste, that are on horseback. I, in the meane time with this heavie target, am scarce able to marche. Xenophon hearing this, streight dismounted, and disranking Sotridas, tooke away his target, and with it on his shoulder continued his hast in marching. By chance hee had on at that time a horsemans armour, where with although he were overpressed; yet slacked hee nothing of his pace. The rest of the souldiers beating and reviling Sotridas compelled him both to his target, and place againe. At last they gained the hill, they purposed, and made the enemie abandon the nether ground. Xenophon was heere overpresed with the horsemans armour. If it had beene but equall in weight with a foote mans, hee might, as well have endured it, as the rest. Plutarch sheweth likewise the Phanch in Phin

taphract. The armes, that the Launcier bore are acjusted by " solvers jeckeng of Strains to pretty Act of the control termeth Acrobolisis by another word flowing from the same fountaine. the armes of the Roman borfemen; who writeth thus: The armour of theire horsemen is at this day like the Gracian. Of old they had noe curaces, but fought 17 Tarentines They are so called of a Citty in Italy Tarentum by name, the in short gownes girded to them. By reason whereof they were ready, & actine inhabitants whereof, that were hor comen, veed this manner of fight. But he maketh two to alight from, and gett vp quickly, on theire horses. But their fight was daunkinds of Tarentines; one, that ever fought a farre of with darts, and never came to gerous with the enemy, because they wanted armes. Theirestaues had two hand with the enemy, the other, that after a dart or two cast, came close up, and fought incommodities. For, being made flender and quivering, they neither could hand to hand. Livy peaketh of a third kind of Tarentines , who weed in fight two a Liv deed, 4. horses at once made fast together, and one being weary, leaped upon the back of the interest touche the mark, they aymed at, and most of them, shaken with the motion of the horse, fell out to bee broken, before the head touched, or fastened vpon any thing. Ioyne, that, having no iron point at the butt end, they ferved but 18 Some vie darts a farre of 7 Of the manner of fight of these horsemen, the pas. Sage of Xenophon is worth repeating. d After these things done, Suth hee, the aide d Xmooh Will. for one stroke onely, and that at the first. And yet the head being broken of, of Dionysius (which hee sent the Lacedemonians) arrived, being more, then the remnant of the staffe was of noe vie. The targets they had, were made of oxe-hyde in formelike to cakes named Popana, which are vied in facrifices. twenty Gally:s. They brought French, and Spaniards, and aboue fifty horse. The next day the Thebans, and theire confederats, embattailing theire ar-And they were neither fitte to encounter the enemy, by reason they had noe stiffnesse or fastnesse in refistance, and being resolved, and loked, or putrified mie, and filling therewith the whole plaine even to the fea-fide, & to the hills, with raine, they could not bee any thing worthe. Finding these inconvenienthat lay about the City (of Corinth) destroyed what soever, might serue to ces by experience, they quickly chaunged for the Gracian armour; In which any vie The horsemen of the Athenians, and Corinthians, seeing the strength, the first stroke of the head of the staffe is certeyne, and worketh the designed and multitude of the enemy, came not neere vnto them : but the horfmen of effect, by reason of the forme, which is not quivering, but stiffe and sturdy: & Dionysius, albeit fewe in number, galloping heere, and there, dispersedly, and likewise turning foreward the butte end, which is armed with a sharpe point, putting spurrs to theire horse, charged them with their darts, and in case the they might therewith fasten a found, and forcible blowe vpon the enemy. The enemy followed, they returned with all speed, and then turned againe, and like may be faid of the Targets, which both in charging, and defending, have threw darts afresh. In doeing these things they vsed to alight from theire a sure & vnfailable vse. Which they noe sooner saw, then imitated. For the Rohorse, and rest themselves, and if any of the enemy singled out to fall vpon mans, if any other nation, are good to change their failions, and to choose them, leaping quickly againe to horse-backe, they fled; and being pursued that, which is best, wheresoever they finde it. The Launcier then had a Curace, 4 any distance from the army, as soone as those that pursued them retired, the head-piece, a launce, and a sword for his armes, and this was generall in Launciers; bu: some Tarentines followed, and plyed them with their darts, and put them to great had besides a target, and were therefire called targetiers. The Launciers were called distresse: forcing the whole armie to advance, and retire, as they list themin greeke Doratophoroi, or Xestophoroi : two senerall appellations in shewe, but sigselues. So farre Xenophon. Another example I will adde out of Livy of the mifteng in deed but one thing, the one being derived from the matter, the other from the Numidians, whose manner of fight is all one with the Tarentine manner. In Ligu- the deal. Darameters forme of the launce. DOru, as I faid before, signifieth wood: and because all the Laun-and Tifus and ciers armes excepting the launce, were of other matter, then wood, the launce was called ria faith hee, nothing worthy of memorie was done a long time. At the end of the yeare all things were brought to extreame hasard. For both the Consuls Doru, (of the wood) and the Launciers Doratophoroi. As for Xylton, or Xelton camp, being affaulted, was hardly defended, and not long after, when the ar-(for they signify one thing) it commeth of the verbe Xuo, or Xco to shaue, or polish (as mie was ledd through a forrest, the way whereof was streight, and narrowe, our ionners doe) and the launces. being made of mood shaven, or polished, are named Xysta, the Ligurians possessed themselves of the mouth of the straights. Through or Xesta, of the forme (as I said) that is given them by shaving, and the Launciers, that which when the Consull could find no passage, hee turned about his armie, beare the filannes, Xestophoroi, or Xystophoroi. And heere I am once so note for all, and purposed to reductit, the way he came. But the mouth of those straights that wee are not to preffe wordes according to the proper fignification of theire primitines, was likewise possessed by a part of the enemies forces. And now the rememfrom whence they are derived. For considering there are more things, then names of things brance of the Defaster of Caudium presented it self not onely to the minds,

but even almost to the eyes of euery man. There were wellnigh eight bun-

(as Logicians fay) the most copious language, that is cannot give proper names to all. Heereof

and a nead thruit out at length. I ney purposely augmenting this contempt flid from their horses, and dallied, and sported, to bring the enemie to a gaze. Wherefore the enemy, which at first were intentine, and ready for a charge, became gazers on, and the most partynarmed themselves, & sett downe your the ground. The Numidians rode up neerer, and then backe againe, and by little, and little, gott to the skirts of the forest; as if theire horses, being resty, had caried them forward against their ewills. At last, putting spurres to they broke through the midst of their eenemies gards, & entring into a larger field, they fett fire on all the houses next the way; then burned they the next vil. lage, and wasted, and filled, all things with fire, and sword. The smoke first seene, then the cry of the people affrighted, lastly ould men, and children, flieng for fuccor, raifed a tumult in the campe. Therefore without counsell or

a Path the 3. shefe darters one horfe-backe maintained, may he perceived, which was "not to come neer the enemy, but to keep a loofe, and lett theire darts fly. Besides not to observe any order in files, or rankes, but straglingly to gallop the field, seeking by theire disbanding to tolle the enemy out of his strength, and so to worke theire advantage. And albeit in the second example, the Numidians weed not theire darts, yet they would have done it if need 1 Liv. dend. 3. had beene; and you shall find in other places of Divy, and Polybius, they did v sually, as B. 1 13 C.& Pro- also in Casar. hyblib 3.214 B. also in Casar. Certar de bein. 19 After 19 After 19 After they have spent one or two ] These darters on horsebacke differ from the other before mentioned, because at the last they toyne, and fight hand to hand with the enemy; which the other did not. And what fight they with all? not with launce; for

commaund every man of himself ranne to the defence of his owne, and in a.

moment both the enemics camp was forfaken, & the Confull, delivered from

his siege, came to the place intended. By these two examples the kinde of fight, that

A Aren in nois swordes, and such other short weapons. Suidas assirmathis, alleged by decreus: I hele, faith hee, at first cast light darts a farre of, and afterward approaching, joyne with the enemy, fighting with battell-axes, or fwords; which kind they call light-horsemen. 20 The horsemen, that vie bowes] I need not alledge any thing to shewe that the Scythians were good archers. It is knowne to any man, that is not ignorant of Hiflory. I will onely note, that in flieng from the enemy, this harmed as much, as in fal.

then should they be Launciers, of whom wee have spoken. But they fight with battel-axes,

equall with the Roman foote, theire horse were treble as many, and the Romans having ling on. For as they fled they turned half theire bodies backeward, and shotte at him, three hundred hor fe to a Legion, the Allies had nine bundred. Tet in case of great pays the sage that followed, and expected noe fuch thing. Of which fishion of fight Plutar ch gineth necessitie, weereade, that the number of the Legions was increased in a Consular Massin Ord. this indeement. The Parthians, faith hee, in theire flight floote backward, &c. armie. Polybius reporteth that, a little before the battaile of Canna, the Condoe it best of all other, except the Scythians; the invention being witty, both fuls Lucins Amilius, and C. Terentius, had allowed in theire armie, which they led to faue themselves by that defence, and also to take away the shame of flight. against Anniball, eight Legions, which never was done before. b Alexander | Dial Mad like

their disorder to have been defeated by + a handfull of men wel disciplined & exercifed. Wherefore Aneas defineth this art to bee a science of warlike motion: Polybius, To be a skill whereby a man taking a multitude serviceable or derethit into files, and bodies, and instructeth it sufficiently in all things pertayning to warre. Notes. cumstances of choice of souldiers. Xenoph. Cyrop.lib. 1.32.A.B. Polyb. lib. 6.406.C. Es Lips. ad Polyb.lib.1. Dialogo.2.3.4.5. Veget lib.1.cap.2.3.4.5.6.7. Et Stewechius ad bacomnia cap. 31. 2 A reasonable leuy and fitting the service ] Levyes are to be made according sections . \$ to the warre, which is undertaken. The enemie is not alwaies of one strength, Sometimes 34. the forces, against which wee are to lead our armie, are more, sometimes lesse. The Romans, if the number of enemies were not very great, vsed but a a Consular Armie, which a popo will a confifted of two legions of Romans , and of us many foote of theire Allies ; when greatest, 2 took in 1.55. onely is yned two Consular armies together. And for Allies theire foote, as I said, was C

1 THE first labout] After prouision of armour followeth choice of men. 1 What men, and out of what climats, and of what profession, and of what age,

T) Vt seeing every Phalange conteineth an vniting of bodies, offices of com-

Dmaund, orders in place, a Convenient number of men, and wordes of Di-

rettion as well for daily exercise, or trayning, as for true fights, It seemeth neces-

fary to deduce every of these things into perticularity. The first labour there.

fore in the art T actick is for a Generall out of a multitude, that cometh to hand

confused, to choose the fittest men, and dispose them into convenient places

(that is to order them into files, and bodies) and of the whole number to pro-

portion a reasonable levie, & fitting the service in hand. For to dispose and

enable an Army, skillfully to march, to encampe, & to embattaile, is a matter

of no small consequence. In asmuch as we often find mightie Armies through

and of what constitution of body, and of what education, are to be chosen, because Alian referreth to the discretion of the Generall, not setting downe any particular, I will likewise passe over, noting onely some places, where hee, that is disposed to feeke, may finde the cir-

were, the principall heads of the art of warre, Marching, Incamping, and embattailing; to which heads all other may very well bee referred. And of these three Alian handleth in this treatise but two, namely embattailing, and marching : of embattailing, so much, as perteineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure, which shall yeald most advantage against the enemy, that meeteth you excepting that hee shortly toucheth the marshalling of baggage in your marche. The other considerations of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, thefe, I say, and such like, hee toucheth not in award. And for the skill of encamping, which comprehendeth the feating of your camp, and provision of all things belonging thereto, as also the siege, and defence of Citties, and fortreses, hee likewise passeth it over with silence, as a thing not incident to his purposed discourse. 4 A handfull of men well disciplined and exercised ] What exercise doth for the making of good souldiers, experience of former times will teache. It hath been the tim faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier serue never so many years, so long, as hee is vnexercised, hee shall bee still a raw fouldier. The knowledge and science of armes maketh a fouldier, which is not gayned but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) arifeout of a number

e veguabanca manner of all famous generalls to bring theire fouldiers to perfection by exercise. Vegeof actions precading, so can noe man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his study and labour therein, and upon the foundation of practife raised the frame of sound and perfect skill. Noe man is naturally borne a fouldier. One may more incline to warre then another, but the skill commeth not Practice without industry and faines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke men, but they are to bee found in all places, where youth is bred up in shame of vice, and boldnesse to undergoe perill for vertues sake. Euretas was a river e Placia Lyon, neere Lacedamon; e Babyx and Gnacion two rivers within the same City. The Lacedamonianswere accounted the most valiant people of Greece. And Plutarch

Deaketh thu of the victory, which the Thebans had against the Lacedemonians; The

Thebans, which till that day had no ereputation of valour, but afterward by exercife, & vse of armes, under Epaminondas, and Pelopidas, became the bravest souldiers of Greece:

Not walke was the faieng of Pyrrhus to his muster-master . choose you Giller

Test for the oterses, that have been established in financial of men here fed, against a multitude unskillfull, and untrained, I need, say nothing. Histories are plentifull with fes therein. I will onely recite one example wherein the difference may bee seene not between skillfull, and unskillfull, but between skillfull, and skillfull both enured to labour, and both brought up under the same practife, and discipline of Armes. At what time, after the death of Alexander the great, his chiefest Commaunders fell at oddes emongest themselves; and sought every man to establish himfelf in the possession of his Conquests, it chaunced, that Antigonus, and Eumenes came together in two fundry battailes. In the first Antigonus had in his army aboue 28000 foote, \$500. horfe, & 65. Elephants; Eumenes lesse foote, 17000 in all (but emongest them 3000. Argyraspides, who chad served in all Alexanders battailes, & were invincible, & strok a meat feare into the enemies harts) & about the number of hor fe, his enemy had, & So. hants: When the foote came to toyne, faith Diodorus Siculus, the fight continemed a Diodor. Sicul a dodwhile, & as last, many falling on either fide, Eumenes his foote had the better by eafon of the valour of the Macedonian Argyraspides. They, albeit they wae stroken in years, yet in regard of the manifold perills, they had been in, carelled in courage, & skill of fight in fo much that no man was able to withfand them, And therefore being but 3000. in number, they were notwithstan. dieg fett against the enemy, as the strength of the whole army. In the other bat. take he feaketh of their age. At that time, faith he, the yongest of the Argyraspi- b Diodor. Sich des were noe lesse, then 60, years olde, or thereabout; the most of the rest about 10.19.693.

76 & some were elder, al of the vnmatcheable in skill & readincsse of fight, &

ftrength of body; fuch was theire dexterity, and courage gathered in continu-

ance of dangers, which they had passed. Afterward rehearsing the battaile, he saith:

The Argyrafpides ferring themselues close, and with lively force falling vpon

the enemy, killed some, and put other some to slight. And sought against the

whole Phalange of the enemy with irrefiftible fury, not loofing one of theire

owne men, & yet through skill & manhood flayeng of the enemy aboue 5000.

&couted theire whole foote, which in number were many times more, then themselves. Thus writeth Diodorus Siculus of the olde practised Macedonians: who yet

fight not against straungers, or rawe souldiers, or such, as were newly brought into the

field, but against men of their owne nation, that had long handled armes, & wonne many

villories, & been instituted, and trained in the same discipline and course military, that then felues had been before: Such difference long practife, and experience wrought in

the one against the other.

What a file, or Decury is, and of how many

were, the principall heads of the art of warre, Marching, Incamping, and embattailing; to which heads allother may very well bee referred. And of these three Elian handletto in this treatife but two, namely embattailing, and marching : of embattailing, so much, as perseineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure, which shall yeald most advantage against the enemy, that meeteth you; excepting that hee shortly toucheth the marshalling of baggage in your marche. The other considerations of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, thefe, I say, and such like, hee toucheth not in aword. And for the skill of encamping, which comprehendesh the feating of your camp, and provision of all things belonging thereto, as also the siege, and defence of Citties, and fortresses, hee likewise passeth it over with silence, as a thing not incident to his purposed discourse. 4 A handfull of men well disciplined and exercised ] What exercise doth for the making of good fouldiers, experience of former times will teache. It hath been the time faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier ferue never fo many years, fo long, as hee is vnexercifed, hee shall bee still a

c vegetables.e.a. manner of all famous generalls to bring theire fouldiers to perfection by exercise. Vegeraw fouldier. The knowledge and science of armes maketh a fouldier, which is not gayned but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) arife out of anumber of actions preceding, so can not man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his study and labour therein, and upon the foundation of practife raised the frame of sound and perfect skill. Noe man is naturally borne a fouldier. One may more incline to warre then another, but the skill commeth not Pha in Peter without industry and paines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke men, but they are to bee found in all places, where youth is bred up in shame of vice, and boldnesse to vndergoe perill for vertues sake. Eurotas was a river e Place Lyon, neere Lacedamon; Babyx and Gnacion two rivers within the same City. The Lacedamonians were accounted the most valiant people of Greece. And Plutareh

Beaketh this of the victory, which the Thebans had against the Lacedamonians; The Thebans, which till that day had noe reputation of valour, but afterward by exercife, &. ve of armes, under Epaminondas, and Pelopidas, became the bravest fouldiers of Greeces

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What a file, or Decury is, and of how many

The number of a file is diverily given, 'for some allow it eight, some twelue, and some fixteen men. Weefor this time will retaine the number of fixteen, both because that number is proportionable to the indifferent length of a Phalange., and also, if vie require at any time to double the depth thereof, and to give it thirty two men, or to lessen, and contract it, and make it but eight, either of both shall hinder the service of the light.armed behinde, 'for whether they vie Daris, or lings, or Arrowes, they may caselie with their slieng weapons overreache the depth of the Phalange.

#### Notes.

NExt after arming, and choyce of fouldiers, it followeth to put them in order for fervice, that is first to file them, then to hand them (which is ionning of fitts) and lastly to embattaile them, which is to make a Phalange. Of these in the following chapters.

I To make files ] The Tacticks have not expressed the precepts of this arte all in the same wordes. I file is heere called Lochos, the signification whereof is diwers. Sometimes it is taken for an a Ambushe, and Lochan significath to lye in Amhistories is bush : it signifieth beside a number of men , that are of one body, as it were, and under one commaunder, who is called Lochagos, and Lochizo is to fett in files. The number of this body hath beene diversly taken. The Thebans Lockios Hieros Prison What first instituted by Gorgides , or as other fay by Epaminondes , consisted of three Athen dipuse hundred men. The Lochos of the Lacedemonians of fine hundred and twelve. lib. 41 - 100 Piets, Kenophon in his returne out of Persia telleth , that the number of the Lochoi of the e Xonephote Gracians, which hee ledde, was almost a hundred armed men. And when they chose extraordinarie men to preserue the Plasium (a hollow forme of square battaile Exemplade where in the Gracians marched) from breaking, they appointed fix Lochoi, of a pol Cri lib, p. hundred a piece, for that purpose, and Commaunders to leade them. And after heereckoneth seventy men to a Lochos. And in the first booke of Cyrus his expea Xcooph decar dition , heetelleth & of two Lochoi of the armed of the Regiment of Menon , that were flaine by the inhabitants of Cilicia, and counted them a hundred men. Cyrus in the same Xenophon commaundeth his Lochos to bee made of twenty foure men. But the Lochos, that Alian heere speaketh of is a lesse number , namely h Arrian lb. 7. fixteene, which was the file of the Macedonians, as appeareth by h Arrian, and i Polyb. in. 17. Polybius. Albeit Arrian calleth it not Lochos, but Decas; and Polybius the depth of the battaile. This number of fixteene was vied by the Graciansaiso before King k Rosson his Phillips time, as appeareth by Kenophon in his historic of the Gracians. And likewife Thorse in a by Thursdides, who reporteth, that the Siracufans were fo ordered against the Athenians. Leo faith it was the manner of the auncient warriers to make a file of sixteen, & calletbit a Tetragonall number.

2 Sonne allow it eight, some twelue] The Lacedemonians made the depth of theire battaile\_sometimes eight men (for a file is it; that measureth the depth of the\_staile, and [6 sough with theire enemies. "It morphies witnesseth as much: the Lacedemonians, faith hee, were not alwaies ordered in depth alike, but as theire Lochagoi (they were commanders of file hundred and twelue a piece) thought good, commonly notwithflanding the depth was of eight a piece. "Xenophon also writeth, that Derestlished the Lacedemonian, being to fight with Illiphernet, and Pharnaba: us, ordered his Phalange into eight. The same proposition was belde by "Massippus the Lacedemonian against the Corpress,

and by = Clearchus the Lacedemonian against his enemies. Xenophon faith, that Thras bulus the Athenian, salieng out of Pyraum against Pausanias the Lacedemonian King, ran. a Polyra. Bha. ged his men into cight. His wordes are: b When Thraspbulus and the other ar. b woods. Bit. med lawe these things, they quickly gaue aide to theire owne people, and gella 177 CD put theire armed in order eight deepe. Paufanias being hardly layed vnto. and retiring foure or five furlongs, commaunded the Lacedemonians, and theire Allies, to refort vnto him, and there casting his men into a deepe Phalange, ledde against the Athenians. Out of which words wee may note; that the Lacedamonians observed not alwaies that order of eight deepe, but varied according to place, or other circumstance. Tet ordinarily they gave but eight to a file, or to the depth of theire Phalange, as Thucydides witnesseth before. The same Thrasphulus with his except his complices entring the base Cutt of Athens called Pyraum to free his countrie from C.B. bondage of the thirty tyrants, having but a fewe with him, possessed the court, which led to the temple of Diana, called Munychia, and being affaulted by the garrison of the Lacedæmonians, ordered his armed men into ten deepe, and the light armed behinde them. The tyrants, and theire followers stood in battaile fifty deepe. At the battaile of Leuttra the Lacedemo d xenoph. his.
n:an armed were twelue in depth, the Thebans fifty. Mexander the great leading his e in the the se. B. armie against Clicus, and Glaucias, the way being so narrow, that no more then foure and the f Xenoph de exmight marche in front, made the depth of his armie a hundred and twenty. fouldiers that X cnophon brought backe out of Perfia, When they purposed to facke Byzants- 319.D um, put themselues without commaunde in order of fifty deep:. In the text is fifty deepe, but the margent hath eight : which I take to bee the truer reading, because Xenophon faith, the place was faire to fett a battaile, being voide of building, and having an even plaine. And it was not the manner of the Gracians to make a Phalange fifty deepe while se there were extraordinarie occasion. & In the battaile of Delos betwixt the Aibe & Thurs ab. 4. nians, and Thebans, the Thebans were five and twenty in depth, the Athenians but eight. The Came h Athenian Were eight in depth against the Syracusans. So that the h Thuryd Ib. e depth of eight was much weed among the Gracians. How be it I find not , that they cal-458,A led a file of eight by the name of Lochos. Cyrus the elder made his files of twelve i known Crown men, and the leader thereof hee called dubinadaexos, and dinadaexos, and the file it felfe de-1,43.0,0 cas, which in signification albeit it i mporte ten, yet wee must retaine the word, as it is vsed, and not fly to the originall of the Etimologie, as I noted before upon other occasion. But Elian maketh his file of fixten. His reason followeth.

3 For whether they vie darts &c.] The file being fixten in number, the fouldiers there in every one the ving after—diffance from other three foots, take up in the whole depth fourty eight foote, and being doubled to thirty two men, they take up ninety fix foote, which amounted to thirty two yards. That bowers and fings eaflite out reache this diffence, appe with by Vegetius, before by mee alleaged, who faith, they throke their marks fix hundred foote of, which in our account by fevers, is ten flore. Of the date a man may rather doubt, which no nivisifianding with an execufed armse if come much further, then thirty two yards. Lipfice writeth, that a dart was whally caff lived bound four hundred foots, which amounted to a hundred thirty three yards, or a weein fine ting med fare it, fix score and odde. The reason why Alian placed the light armed be.

bind wee shall see beere after in fitt place.

The order and parts of a file or Decury.

#### CHAP. V.

THE best man of every sile is the first in place, and hee, that leadeth the file, who is also called the file. Leader, the Communder, & the fore stander. The last man of the file is called the Rear-Communder, or bringer-vp. The whole file it selfs termed 'a verse, and 'a Decamy, and of some 'an Enomary. Yet there are, that hold Enomestic for the sowerth parte of a sile, and the Communder of an Enomary they call Enomestuchs, and two Enomasies they take for a Dimery, and the Communder of Dimerites, to that the half sple is said to beca Dimery, and the Communder Dimerites, This man is the last of the file Hee, that standeth next behinde the file-leader, is named a follower, and the next after him a Leader, and the next after him a gaine a follower. So that the whole file consistent of Leader, & followers placed successionely one after another. It because the file-leader to be emore sufficient, then the rest of the sile. And next him the Leader of the half-sile, or bringer-vp. They define a file to beca Rome of Sollowers, placed according to their eworth successions as the sile after a sile-leader.

#### Notes.

HE best man of every file.] Why the file-leader ought to bee the best man of the file many reasons may bee given first because hee commaundeth therest. And as in all other things hee that is to rule, and governe another ought to have more knowledge, then hee that is commaunded, and governed, so is it in matter of warre. Further, as his skill, so his valour, ought to bee most: that his example may incourage and incite the rest. Which is the cause, that other commaunders also are placed in front, and in the eye of the fouldiers that theire valour & forwardnes may bread an honest emulation in the fouldiers to doe, as they doe. Befides, the first place is most befeeming him, that best deserveth, and the more valiant a man is , the more hee desireth to showe it in the face of the enemy, thereby to winne himself honor, and reputation. Furthermore, hee may doe best fervice in the front , by entring into the enemies battaile, and making way for the rest. Not walike a sworde, whose edge maketh speedy passage into the thing, it cutteth, and draweth after it the reft of the iron, bee it never fo blunt. In the front the eranke of the file leaders give the push to gaine the field. Which reason I thinke lead Gorgides the first institutor of the Theban Hieros Lochos, not to make an entire troupe shereof apart but to place it man by man in the first ranke of the Phalange. Lastly the fight of the file leaders, being the choice of the armie, both for stature, and resolution (for a dim cont of o Alian would have them) breads a terrour in the minde of the enemy. Who, seeing closed 5-71 such gallants in the front, have cause to imagine that the rest of the armie, which they see not, is like to these they see. And, being never so valiant, they had rather have to doe with weake, and relenting then flout, and resolute adversaries. As at the battaile of & Lindoods to Canna & Annibal an overed one, that brought him newes, that the Con full had commanded the horse men to alight, and fight one foote, how much rather would I, quoth hee, hee had delivered them bound into my hands. I have heard many hold opinion, that the manner of the Gracians, to bring theire best men first to fight, is contraDimery

The last 1 file it felf? are, that an Enomi name the Dimery. that ftan him a La confiftet houeth t him the follower

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cutteth. ranke or gidas ti \*bereof Gebs of

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Canna d ded the l hee . he

opinion's

ry to the institution of the Romans, who held the Triary (theire eldest, and best souldiers) in the rear, and brought them not to ione, till both the Haftati, and Principes were beaten, or retired. But if wee consider the diversity of both theire embattailings, wee shall fee noe great difference, or at lest wee shall fee, that the reason of placing their-best men was not much different. The Gracians in framing theire foure-fold Phalange made in length an even front of a to 24. files. The files were 16. deepe, and the best men therefore in front, because being placed in the midst, or in there are, there would have beene no we of theire valour, and the Phalange might have beene broken, before it had come to theire turnes to fight. The Romans contrary-wise, in ordering a Legion, made many maniples, and gave the front to the Hastati, the middest to the Principes, the reare to the Triary. Nowe the Triary being ordered in the Reare, might at the beginning bee brought to fight in Front, if need were; being noe need, they kept theire place, till their Generalls found is fit to call upon them. So then this is the difference. The File-leaders of the Gracians had the Front, because otherwise in so deep a body, as the Phalange was , they could not have come to fight : The Triary might alwayes have beene imployed in Front, in flanke, or in the reare, as pleased the Generall. And that the Romans also in theire severall Maniples placed theire best men in Front , I cannot doubt . There stood the Centurions , which were the leaders of the Maniples, and in reason were to bee seconded with the hell men under theire commaund. 2 C. Crastinus may serve for an example whoe being noe Centurion, out an Evo. 2 Can digitable. cate, in the battaile of Phar faly betweet Cafar & Pompey, bidde his Manipulers (they were of the Maniple, which hee once commaunded) to followe him, and faid hee would make his Generall giue him thanks aliue, or dead. Tet must I confesse, that the front was not the proper place of the Evocates. But hee chofe the front and held it a place worth of his valour. It is faid of Cariline that, when hee fought with C. Anto. b said to com mins, hee placed in the front of his army, all the chosen Centurions, and Evocates, and besides of common fouldiers such, as were bestarmed. Livy spea . Livin dead. king of a fight betwixt the Romans, and the Latines, and describing the forme of the Roman ib. 1, pag. 114. A battaile, after hee had limited the place of the Hastati, & Principes, writeth thus of the Triarij. After the enfignes (hee meaneth the Standards of the Legions) not the En. fignes of Maniples, were ten other Maniples; whereof every one had three Enfignes. The first Ensigne led the Triarij, ould souldiers of tryed valor, the next the Rorarij, not foe well esteemed for strength in either age, or deeds, the third the Accensi, a troupe of lest trust, which was the cause, that they were cast in the reare. The Accensi were put in the reare, because there was noe great opinion of theire valor; the Triary had the front, because they were ould fouldiers, and had beene sufficiently tryed. Soe then in dividing of their armie into small bodies, or battailions the Romans differed from the Gracians: in placing the best men of theire maniples in front , they observed the same manner, that the Gracians did in placing theire fileleaders in the first ranke of the Phalange.

2 A verse I have translated stichos a verse. The more vsuall signification is a rowe of any thing placed orderly. & Soe Xenophon applies it to trees, which were planted a xenopin Oct orderly one after another; and Eustathius to the standing of dauncers one after another in e Eustathius to the depth even as our fouldiers are placed one after another in file. fulius Pollux alfo acknow- full Pollux lib. ledgeth, that there Were files , and ranks in Choro, that is in dannees uppon the flage. But Suidas faith it was commonly taken for a line, which was read from the left to right & Suidae in ver hand. And to fay the truth a verfe, as wee read at this day, and as they read, when Alian Prote this treatife, rather resembleth a ranke then a file; because in a ranke men fland Side to side, as words doe being placed in a line. Tet because the word is received by wein that other sence, wee must like wife admitte the same.

A decury]

3 A decury ] This in Greeke Alian calleth Decania, a word, which in this sence I find in no other Author, then in him, and in Suidas- Xenophon calleth it Decas: magnin frat. [se doeth Vrbicius and Arrian, and likewife Hefychius. d Leo callethir decarchian

4 An Enomotic] The word cometh from omnymi to sweare, not of omos a d Leo cap. 4 5 Shoulder, as Robortellus, and Patricius immagine; of whom the first translateth it in la-Parisins paralle, tine Intergutio, the other in Italian Spalaggione, as it were a backing V pon this conmile part 14173 ceite, I thinke, because in a file the whole number standeth one at the backe of another. & part 2,154 e Suidas faith: Enomotia is a body militarie amongst the Lacedemonians of 32 men, and is foe called, because they take theire othe together, not to forsake f Brymol mag- the place affigned them in battaile. With whom agreeth the great f Etymologicon;

man in Brometts and Heffchius likewife; who termeth it a body militarie, that taketh an othe and sweareth by the facrifice, which is offered at such time, as they goe into the field. And furely you shall not finde the word Enomotia applied to other fouldiers, then the Lacedemonians, or elfe to them, that the Lacedemonians commanded: untill it was afterh I. I Pollux lib ward taken up by the Macedonians. And h Iulius Pollux expresty noteth, that Moira, and Enomotia, are proper appellations of the Lacedemonians, given to certaine of theire militarie bodies. Albeit both the text bee corrupted in Pollux , having Eunomotia for Enomotia, & the interpreter hath wor fe traffated it, redring Enomotia, militarie discipline, & Moira a duty. As the Lochos is great, or little, so is the Enomotia. The Lacedemonian Enomotiawas 32. men, the Lochos being \$12. but the file of Alian being 16. and the Enomotie noemere, then the fourth part of a file the Enomotie mult conteine noe more then foure men. One of enery of thefe foure must bee a commander; who is called Enomotarcha, or the commander of that Enomotie. So that in the whole file, confifting of 16. there quebt to bee foure Enomotarchas. Where they should stand in the file, is a question. Patricius maketh the file-leader the first Enomotarcha, the fift man, the second, the ninth man, the third or the 12 man the fourth : excluding the bringer up, whom not withstanding hee acknowledgeth to bee the second man of the file, and in dignitis next to the file-leader. I am of another opinion; and yet allowe the places of the first, fift, and ninth, but thinke the bringer-up i Art.17464C oucht to bee the last Enomotarcha: Arrian confirmeth my opinion : who writeth thus: Alexander returning to Babilon, found Prucestes newly come out of Persia, bringing with him 20000. Persians. Then commending the Persians for theire obedience in all things to Prucestes, and Prucestes for his care, and diligence, in ordering them, hee reparted them into bands according to the

Macedonian manner. Over every file hee appointed a Macedonian file-leader to command, and next a Macedonian dimærite, and a Decastater, so called of the paye hee had, which was lesse then Dimarites, and more then the common fouldiers; then twelue Perfians, and last of all the file a Macedonian, who also was a Decastater. So that in the whole file there were foure Macedonians, three, whose pay was more, then the common souldiers, and a fileleader the fourth, and more over 12. Perfians. So Arrian. Out of which wordes wee may learne first the number of the Macedonian file, which consisted of 12. Persians, and 4. Macedonians, in all 16. the number , that Alian requiresh in his file. Next, that the Enomotarchs, or commanders of the foure parts of the file, were likewife 4. Laftly that the bringer-vp was one of the foure by exprese words of Arrian, which is contrarie to the opinion of Patricius, and whereas Arrian termeth the third Enomotarch. Decastateros of the pay, heereceived, it is to bee under stood, that Stater was a piece of coine, of the weight of foure dragmes of Athens whereof the

Enomotarch had ten by the moneth. The dragme was of value leven pence sterling, and the Stater, conteyning foure dragmes, two shillings and four epence feeling; and ten of them were valued at twenty three shillings and soure pence. Which was the pay of the second Enomotarch, and of the bringer-up, as Arrian affirmeth.

5 And the Commaunder Dimærites ] About the Dimerite Arrian, and A. lian, differ. Suidas leaveth the matter uncertaine, Suieng the Dimerite is commander of the half-file, but pointeth not out, which is hee. Arrian distinguisheth the Dimerite from the bringer-vp, and giveth a greater pay to the Dimerite, then to the bringer-vp. The bringer-vp, he faith, was noe more then Decastateros, where as the Dimerite had a greater pay. But Alian twice in this chapter affirmeth, that the bringer-vp was the Dimerite, and addeth hee ought to beethe fecond man of worth in the file. And that the place of the reare is not much inferior to the front, "Cyrus tea a xerop Grou-cheth his bringers-vp in Xenophon in the fewords, You have a place faith he no lefte the sub honorable, then they, that stand in front. For being in the reare, and seeing & encouraging them, that behaue themselues valiantly, you make them more valiant, and the remisse and backward you incite, & spurre on, likewise to doe as well, as the reft. b Leo appointet two Officers to a file, the file-leader, and the blow ap. 4. bringer.vp, & so maketh the bringer-vp the second person of the file. Thereare being then the second place of the file, I conceiue no reason, why, as the file-leader commandeth the one half of the file, fo the bringer-vp Should not bee the Dimerite, and command the other; and I rather asent to Elian, that of purpose describeth the particulers of this arte, as hee findeth them fet downe in the auncient Tatticks, then to Arrian, that, writing the historie of the deeds of Alexander, stumbleth by chance upon these things not greatly incident to his narration. Tet may there becare sonable construction of both their meanings, if wee consider the severall respects of the offices of these Enomotarchs. For the middlemost Enomotarch may bee termed the Dimerite in regard he standeth in the head of the second half-sile, and in doubling the front and some other motions leadethit: the bringer-vp because he absolutly governethit, and seeth that directions, given by higher officers, bee executed.

6 Itbehoveth that the file-leader bee more sufficient] The file-leader and bringers up ought to bee the most sufficient, because they have the whole government of the file, the one in the front, the other in the reare. Thereft are under them, and to bee called by the names of leaders, and followers. But yet is there a further disposition of the file, which, as I finde it in Leo, I will fett downe His words found thus: Over the Leo 4.5.49 other fixteen you are to appoint a file-leader (as hee is termed) resolute, and fitt for service, and eight of these sixteen, that shall bee found fittest, you shall place in the front, and reare, of the file, four ein the front, namely in the first, second, third, and fourth place, other foure in the reare, in the sixteenth, fifteenth, foureteenth, and thirteenth place, that the front and reare may be firengihened with foure men a piece. The weaker are to bee placed in the midst of the file. This counsell, or rather precept, of Leo hath this reason. The front, and the reare, are the principall places the enemy commonly giveth upon. The front wee alwaies turne against the enemy, if we can. The reare the enemy seeketh to attache, and by it to distreffe vs , if heccan. The flanks for the most part are secured by the horse, and light armed. For Leo placest the light armed, and horfe in the flanks. Soe thefe two places, being most subject to the violence of the enemy, require extraordinarie care, and affurance. As for the weakest, which are in the midst , they never come to strike stroke, but after the front, and reare, are broken, In another place hee writeth to this effect : your Contubernies & Loca 45.14 (the fouldiers that cabin together) you shall order according to five men, or to ten, or to foure,

or to eight, or to fixteen, as you hall find most convenient, that being bound one to another with mutuall acquaintance, they may fight one for another in battaile and bee more valiant against the enemy. But you shall doe more wisely, if when you are to joyne, you place brothers by brothers, & friends by friends. For when hee, that fighteth, hath an entierly beloved frend standing next behind him, hee must of necessity hasard himself with more egernesse for his frends sake. And the other being ashamed not to requite one, that sustaines such danger in his behalfe, will hardly bee brought to forfake his friend fo well deferuing, and first betake himselfe to his feete. The same is the advise of Onosander, and was much practifed in auncient time. The Lochos Hieros, or Holy-band, of the Thebans (whereof I pake before) consisted all of friends, that had bound themselves one to another Planarch in Pe in friendship. With this Holy-band Pelopidas gaue the first diffracefull overthrow

b Plutarch, ibib. to the Lacedamonians, that ever they had. Of this band's Plutarch writeth, that it was never beaten untill the battaile of Charonaa, when Philip the father of Alexander vanquisht the Athenian, and Theban forces both together. After which battaile Philhip furueying the dead bodies, and comming to the place, where these three hundred lay, all close mingled one with another, and strooken through with the Macedonian pikes, hee wondred greatly, and hearing that it was the band of louers, and beloued, wept, and faid, evilly may they perish, that suspect any filthines in deede, or fuffering, to have been practifed amongst such men. Cyrus the elder had his Homotimos nourished up together, and Alexander his Hetairos; e Diod.Sicullib. whose extraordinarie service appeared in all theire battailes. Diodorus Siculus wriseth of Sefoolis the Agyptian King to this effect : at the birth of Sefoolis his father did a magnificent and royall deed. For gathering together all the children of

Ægipt, that were borne the same day, and setting over them some to nourish and governe them, hee gaue the same education, and institution, to them all, conceiving that they, that were brought vp together, & partakers of the same liberty, would become the best affected, and most assured fellow helpers in warre. This was the judgement of Myris, the father of Sesoolis, King of Leipt, in providing asured assistance to his sonne for the conquering of the whole world, which by certeine blinde prophecies was promifed him. Now what little trust theire is to bee given to men, that are not acquainted one with another, Pompey that great Captaine of the Roa com ad Am mans sheweth in his epistle to Domitius : 4 For men, faith hee, are not quickly to be affembled hether by musters, and if wee had them, you are not ignorant how much they may bee relyed vpon, being vnacquainted to fight against ould Legions. Tet hath Leo another mixture in his files. For hee would have the ould, and new fouldiers put together in one file. Least faith hee, the ould being by themselves

> experience. For the one, albeit ould, yet are well acquainted with fervice the other albeit young, and valiant, yet are vnskilfull. For the Enomoties, dimerie, and file, see the figure.

> > Icyning of Files.

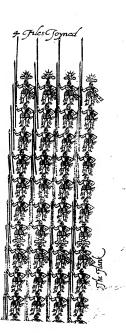
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CHAP, VI.

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The Tatticks

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2 Files Toyned

is called Parastates, as for example the Leader of the second file, to the Leader of the first, and so their enext followers, and the rest. As often then, as the second file, the third, the fourth, and so the rest are layd flank-wife to the first, it is named Loyning of files.

#### Notes.

T Oyning of files is ] A file of it felf will worke litle effett against an enemy. For what can a man alone in front doe! Cyrus in Xenophon wisheth, that, a xenop Cyrep, where as the Ægiptians stood a hundred in depth, they had beene in depth a thowfand, for foe, faith hee, wee should have the fewer hands to fight against. The ranke bringeth the multitude of hands to fight. Andit is held, that the more hands are with conveniency brought to fight, the more is his advantage, that bringeth them. This is done by loyning files together, out of which loyning, ranks fpring, and ranks the more they increase, and extend themselves in length, the more hands are ready to encounter the enemy. Now, as it was faid in the former chapter, that files confifted of leaders, and followers, from the first to the last , fis it in this chapter faide, that ranks consist of side men from one end of the length of the Phalange to the other : Fewe, or many men, placed fide to fide in a right line make a ranke; as in two, or three files iogned together, there are fixteen ranks of two, or three men in a ranke. And the two or three file-leaders make the first ranke, theire followers the next, and so the rest untill you come to the fixteenth. The like falleth out in more files. Vrbicius faith, that the file leaders make the b Rymol, magning in the word strain front (asthey termeit) of the Phalange, which they call also the first ranke. And fur- too, ther, hee faith, they, that runne in an even line betwixt the two wings, the right, and the left, are faid to bee Parastatai, or sidemen. Likewife : the last ranke is called Oura, or the reare, and the commander Ouragos, the bringer- p. So Vrbicius agreeing with Alian. Now, out of these two chapters, is a cleare distinction of the names of souldters, that by reason of theire posture, or place, in battaile make the diversitie of files, and ranks. They, that make siles are Protostatai, first standers, & Epistatai, after standers; which are by vs commonly called Leaders, and followers. For thefe two faith Alian make the file from the beginning to the end. Parastatai side-standers, or, as weeterme them, sidemen, make the ranks. And if you measure the length of the Phalange, you doe it by number of men in the ranke, if the depth by number of men in the file.

Of a Phalange, the length, and depth thereof: of rankinge, and fixinge; the division of the Phalange into Stinges: the place of the armed foote, of the light-armed, and of the Hofe.

#### CHAP. VII.

THE whole bodie of the multitude of files is termed a Phalange: whole length is the first ranke of file-leaders, and is named, the from, the face, the edge of the bastaile, the ranke, the moush, the Commaunders, the fore-standers, & the head of the files.

As much of the *Phalanee*, as firetcheth backward from the *from* to the *reare*, as a named the depth. The bearing firaight foorth of *fide-men* in length, whether

therethey bee Leaders, or followers, is ranking. And the standing of Leaders and followers directlie in a line in depth, is filing.

A Phalange is divided into two whole partes beginning at the middle section of the front, and houlding on cleane through to the vitermost parte of the depth; whereof the one half is called the + right wing, and head, the other half the left winge, and saile. 5 The two fold fection it felf, that divideth the length. hath the name of the Navell, and the Mouth. 6 The Light-armed are placed after the Phalange of the Armed, and behind them the Horfe. Yet if occasion require, both light-armed, and Horfe are otherwise disposed, as after in this discourse will appeare.

#### Notes.

HE whole body of multitude of files is termed a Phalange] loyning of I files makes ranks , and a sufficient number of files , and ranks together , make a body, which is called a Phalange. For that name is given to any entire body of an indifferent greatnesse, compacted, and united for fight. Hesychius deriveth the original of the word Apo tou pelas allelois inai; from the standing of the souldiers in battaile neere one to another. Suidas in the same sence, albeit hee differ a litle in words, faith, the Phalanges are fo called apo tou pelafai anchi, of approching one neere to an other. The great Etymologicon goeth yet a little further, and faith, that Phalanges are as it were Palanges para to pelas kai eggys einai, as it were Pelangys. Thefe are the consectures about the original of the name. Which of them is truest, is not greatly to the purpose. It is enough to understand, in what sence the word Phalange is common. ly taken among ft Tactick writers, who, as I faid, in a generall signification call any a Course bell. great body of armed gathered together, and united for fight, a Phalange. Soe Cafar nameth the battaile of the Heluctians, into which they cast themselves, when they fought b Xenolide cap, against him, and likewise the battaile of Ariovistus, a Phalange, So speaketh b Xenophon Cyrinb. 1306. I of the Platium, or fauare holow battaile, into which the Gracians, that went with Cyrus the younger into Persia, fashioned themselves at their returne out of Persia. And the e Kooph. hist. Same ' Kenophon Saith, the horse of the Gracians, when they were to encounter the Per-Arrian L. 1. fians, ordered themselves foure in depth, in forme of a Phalange. And Arrian, that \* Xenophhitos, the Persians at the River Granicus were ordered in a long Phalange, and Enophon aproclis s. e. A gaine discoursing how Iphicrates exercised his nauie, when hee expected to fight with the Lacedemonians, faith, hee sometimes lead in a wing (that is in a large depth) fometimes in forme of a Phalange, in a broad front. The first inventer of the Phalange is thought to bee Pan the generall of Bacchus his armie. Polyanus (aith: f Poirth but f Pan was the commaunder of Bacchus his armie. This man was the first that invented the order of a battaile, called it a Phalange, and parted it into the Right, and left wing. For which cause Poets faine, that Pan carieth two hornes vpon his head, Besides hee was the first, that by slight, and cunning cast a feare vpon his enemies. For when Bacchus, incamping in a hollow forest, was advertised by his spies, that an infinite number of enemies were lodged one the further side, hee began to be afraide. But not Pan: who commanded the same night the armie of Bacchus to give as great a shoute, as they could. The Rocks and hollownesse of the forest rendered it againe double to the enemy, & made shewe of a greater armie, then Bacchus had. Where with the enemy falling into a fearefied foorthwith. In honour of this strategeme wee faine, that Eccho is Pans lone: & the canflese night-feares, which fall woon Armyes, were attributed to Pan.

So farre Polyenus about the inventer of the Phalange. The number of the Phalange is not alwayes one. It may confifte of ten thou fand, twenty fine then fand, or as many. as you lift , " Antigonus the King of Macedony had his Phalange of ten thouland a Poply the Prolomaus King of Agipt, of twenty five thouland. The ten thouland Gracians b Poph ub. s. that went with Cyrus into Persia are called a Phalange. What number the Helvetians, c poren lib. and Ariovistus, had in theire Phalange, is not preciselle set downe by Casar. d Tet it in Contraction 5.3. feemeth by Cafar , that the most parte of the fighting multitude of the Helvetians cast Bullion. themselues into a Phalange; and those of Ariovistus likewise: But Alians Phalange is restreyned to a certeine number, as the next following Chapter will teache.

2 The length whereof ] The length of the Phalange is to bee accounted by the ranke not by the file. The file is but fixteen men deep. Theranke from the pointe of one wing to the pointe of the other conteyneth athou fand, and twenty foure men in Elians Phalange. So that the files being (hort in comparison of theranks , it is reason, that the length of the Phalange bee measured according to the ranke, not to the file. Suids agreeth with Alian layeng, that the length of the Phalange is the first Syn- c Saids in Mei tagma (the first ranke) of file leaders, which is ordered in a right line, stretching from one wing to another, and is called the face, and the mouth, and the front of the edge. and the first-filing, and the first standers of the battaile. The next rowe, lyeng Pa. rallel to this, is called the second ranke, and the third, the third ranke, and soe the reft, The length is termed in Greeke Mecos, to which is opposed the depth, which is named Bathos. Neither is there in true account any other dimensions in a Phalange, besides the length, and the depth, which are in this chapter mentioned by Alian. Other names are given in Greekewriters sometimes, but they signific either the one, or the

3. Is named the depth] Asthelengthrunnethalong by front from one wing to another, fo the depth beareth backward from the front to the reare. The depth is properly called Bathos, as I faid. fand Bathera Phalanx, is a deepe Phalange. Died seal 158 And & Arrian faith, Alexander or dered his Phalange es Bathos, in depth. And g Arrian ib. t. g h Polybius, that the Romans made theire battaile much shorter then before, but much he polybilis. 15 deper, Bathyteran. And si is called Bathos, for the most part, so nit by Leo Accelled also Pachos. For the depth of a file is by him termed depth, or Thicknes, Bathos was seen as seen. etoi Pachos, in two feverall chapters of his Tacticks; not inrespect of the file it felfe, apri 5 ..... which is no more then a long line, as it were, and carieth neither Thicknes nor breadth, 4 but in respect of the Phalange, the depth whereof is measured by the file. And in the fourth, the twelfth, and fourtenth chapters hee termeth the depth of the Phalange it felf (Thicknes) Pachos alone with out adding Bathos; shewing thereby, that Pachos also signifieth the dimension of the Phalange from the front to the reare. But where some are of opinion, that Platos, breadth, ought to bee read in those places in flede of Pachos . Thicknes , they per swade mee not to bee of theire mind. E For Alien & when cap see himself giveth an Attenuation, or Thinning, (which hee calleth Lipty smos) to the Phalange: and that cannot bee understood, unlesse there were in it a kind of Thicknes before. And to make it more plaine, her faith, that this Leptyfmos is, when the depth of the Phalange is gathered up and from fixteen men it becometh a leffe number. So that the Thicknes of the Phalange is the full fixteen, which is also the depth, and making of it Thinner is to lessen the depth. To a Place Platos is firsty attributed, a Place being onely superficies , which consistet hof longitude and latitude. So' Polia- 1 Polyen. nus speaking of a valley, wherein an ambush was layde to entrap Alexander, Saith, the length firesched farre out, but the breadth, Platos, was narrowed to foure fur- m Porto- man longs. The name of Platos is likewife given to a place by " Polybius - But to far the see D.

truth Platos in a Phalangerather signifieth the length, then the depth, as appeareth on \$2. by Alian after in the foure and fourty chapter. And Leo calleth the front of the Phalange Platos, and when hee would have the front enlarged, or doubled, hee giveth this word of direction Platynon pròs tà amphotera mère, enlarge the front on both

4. The right wing ] That which in the English toung is called a wing, is termed in Greeke Ketas a horne. Wee in our warres of auncient time divided our armies into three parts, The vantgarde, the battaile, and the reare-warde: and, when wee came to fight , fet them for the most parte in an even front, the battaile in the middest, on the right hand, the vanc-garde, which was called the right wing, on the left, thereare-warde which was called the left-wing. Properly enough for our embattailing. For the battaile is , as it were , the body, and the vant-garde , and reare-warde, are the wings, which in a manner sticke out from the body, and whereby the body is supported : that , that wee call wings , the Grecians , and Romans cal led horns in the battaile. The word Keras fignifieth a point bearing out from the beight, or ends, of any thing. It is veed for the toppe of Rocks, and for promonto. ries , and fuch like ; Andin a Phalange it properly fignifieth the two points (the right and the left) of the winges. The English wordewing I am faine to retaine, because it is familiar, and in vic. Alian heerewill have the wings to fretche out from the middle fection to either point (the right and left) of the Phalange; under which appellation must fall to the right wing the whole space, that beginneth at the middle inpervall, and runnesh along to the corner of the bastaile on the right hand, to the left, all that is comprehended between the same space, and the left corner of the battaile.

The two fould fection ] In Greeke it is named Dichotomia : because it parteth, and divideth the Phalange into two even parts, beginning at the front, and fretching out to the reare. And Alian in the tenth chapter of this booke nameth it Apotome. But heere hee speaketh of no more intervalls, or partitions, of the Phalange, then of this one in the midft. I would thinke there fould bee more. Ono funder faith: let there bee certaine intervalls in your battaile, that if your enemy advance, your light-armed after they have spent theire missive weapons, and before the Phalanges joyne, may retire leafurely in the intervalls, and without disorder come behinde to the reare. For it is not fafe for them in retiring to fetch a compasse about the whole armie, or to turne in againe on the outside of the winge. For the enemy, hasting to come to hands, would eafily prevent, and intercept, them in the middeft fo that they neither should bee able to breake through the armed, already closed for fight, and falling upon theire owne weapons, they must needes disorder theire owne people, every man after other feeking to finde a way through them to escape the danger hee is in. Thus much One lander: from whom wee may learne, both that theire ought to bee more fections in the Phalange, then one, and that the inflitution of them had this cheefe end, to receive the light armed in theire paces, after they had skirmifed with the enemy, and were by them forced to retire. I may adde, that Alian placing the lightarmed in the reare of the Phalange if you give but one lettion watoit, it will be as hard for them, to advance, and (rue, before the front, at it will bee to retreat after theire) \*\* 1.18 fervice done. It feemeth, that Leo giveth three intervalls to the Phalange of the auncient Tatticks. Hee faith: they opposed the bodies of the armed against the enemy, and divided them into foure parts, the right, and left, and the middle-right, and middle-left parte. Making fo many parts, the parts must bee distinguished ( as I collect ) by intervalls, which ought so bee one

after the first body of the right-wing, another after the second, which is the middle fection, the third after the third. And this Third fection is bounded with the fourth body , which maketh the point of the left-wing. For if the Phalange were whole , and entire , without more intervalls then one , how could there bee foure parts? For efteeming them by Phalangarchies, without leaving spaces betweene. it could not bee faide, there were but foure parts of the Phalange, confidering, that as well the Merarchies, Chiliarchies, Pentecosiarchies, Syntagmataes, areparts of it, as the Phalangarchies, But being diffine uished by partition of intervalls. the foure Phalangarchies become foure parts, namely the right, left, middle-right and middle-left : as Leo heere sermesh shem. The fame . Leo fpeakesh after more a Louis plaintly enjoyning his generall to seperate, and dissone Diachorizein the whole number of his armic into four eparts. For, as Choris significth a part or severed. fo Diachorizo , being derived from it , fignifieth to put afunder, or fette apart. Suidas is yet a little more cleare. A Phalangarchie, faith he, is two Merarchies b salan in the of foure thowfand and ninty fixmen. This as fome fave is the fection. App. tome, of the wing, as other, it is a Meros. Of auncient time it was called Sira. segia, and the commander Strategos, but nowe hee is termed Phalangarcha. Suidas maketh the wing to have a partition or fection, and faith, some call a Phalangarchie by the name of this section, Before wee hard out of Alian, that the wine (right or left) did stretche out from the middle section to the outward most point of the battaile on either fide. And as the middle fettion divideth the Phalange in the parts, which are called wings, so this section (spoken of by Suidas) being in the middest of the wing divided the wing into two parts. To call a Phalangarchie (which is a body consisting of foure thowsand and ninty six men) a section, is, I confesse, an un. proper Beach . but tolerable notwithstanding , considering that the whole foure. folde Phalange is composed of the foure Phalangarchies, and that the section of the right-wing beginneth at the left hand file, or inward point of the right hand Phalangarchie, and endeth at the right hand file of the second Phalangarchie. And wee arenot to expect the same exactnesse of speach from souldiers, that is common to men skillfull in the liberall sciences. Souldiers, that profess action have theire end if they bee understood of those, they commande. Attites are contemned, that clothe nos the precepts of theire arts with elegant, fitt, and exact termes. Seeing then the beginning of the lection of the wing is at the flanke of the first Phalangarchie on either fide of the Phalange, wee may after a fort terme the Phalangarchie a fection of the wing , because it boundeth the section. At least by this place of Suidas weemay eather, that there was an intervall in either wing, which in reason ought to bee in the middest of the wing, and to lie betwixt the two Phalangarchies. For fo many there are in one wing. Polybius telleth of Philopamen , that , fighting against Machanidas the ? Poly land Tyrant of Lacedemon, after hee had placed the light-armed, the Lanciers, and 189rians lountly in one from hee added in the Same right line the Phalange distinguished inso bodies according to Metarchies and divided by severall distances. I translate Speiredon distinguished into bodyes , because Speira signifieth a militarie body a. mongst the Gracians, and is by the Gracians, that wrote the Roman historie, veed sometime for a Legion, and sometime for a Cohort. And it see. meth that Spiredon is heere by Polybius put in the same sence that Eis Speiran is by a Plutarch : who mentioning the reformation tenching affaires mi- a moule man litarie, which the same Philopemen brought in amongs the Achaians, wis perman teth thus : theire manner and forme of embassailing was not vifually parcel led out Eis Speiran , that is (as I interprete it) in severall bodies , but ving a

Phalange, which had neither protention of pikes, nor cloting of targets in front (as the Macedonian manner is) they were easily foiled, and broken, by the enemy. The meanine of Plutarch is (as I conceive) that the Achaians in former times veed to order sheire Phalange in a continued length without intervalls which Philopamen reformed. and taught them to make divisions by intervalis; And the practife of Philopamen to the best interpreter of his owne counsell to the Achaians. This practife Polybius fetseth downe to bee the division of his Phalange Kata tele speiredon en diasternasi into bodies distinguished by intervalls according to Merarchies. Polybius also, to shewe, what bodies they were, veth the word Tele, which I translate Merarchies. baving my warant out of \* Alian : who faith a Metarchic consisteth of two Chiliarchies, and conteineth two thow and and fourty eight men, and a hundred and twenty foure files; and addeth, that it u of some called a Telos, and the leader a Telarch: A man may doubt feeing Philopamen made an intervall betwixt every Merarchie, whe. ther hee made leven divisions, or no : For in Alians Phalange there are eight Merarchies. betwixt every of which if a distance were, there must needs arise seven intervalls. To cleare this doubt wee must understand, that the Phalanges of the Gracians were not alwaies of the same number, as I noted before. Alians, and the Macedonian Phalange, consisted of sixteen thow fand and odde. Antigonus had but ten thow sand. Demetrius elemen thowfand. Other had more, the Lacedamonians lesse, and likewife the Gracians for the most part. And it seemeth, the Phalange of Philopemen was so more, then eight thow fand, and odde, in which number there are but foure Merarchies. As Alians Phalange comprehending sixteen thowsand and odde, wherein are foure Phalangarchies, hath likewife three divisions by Phalangarchies. And get in thu Phalange of Philopamen , if you account the file to have but eight men (as the most Gracians vied in theire files to have) these foure Merarchies will possesse as much ground in front, as the Phalangarchies of Alians Phalange doe, the file being fixteen. Neither is it new to figure out the bodies greater, or leffe, according to \$ 100 mp. 4 \$. the number of the Phalange. Leo commandeth bis Generall, when the number will not reach to fixteen thow and (the number of the ould Phalange) to hould notwithstanding fixteen men in a file, and to divide his Phalange into foure equall parts by intervalls, excepting some few, which hee would have reserved for other viss. To conclude Alian him self seemeth to acknowledge more sections, then one, when in the tenth Chapter of this booke hee speaketh of the middle section mele apotome. For this word middle being a relative, can not bee understood without two other at least, which are placed on either side. And all the figures, that I have seene, of a fourefold Phalange allowe three sections , and no more , that is to faie , one in the middest, and the other two in the wings. What the distance and dimension of shese sections ought to bee , I finde not set downe. But , if I might have leave to coniecture, I would thinke, they ought to bee large enough for a troupe of horse, framed wedge-wife, after the Macedonian manner, to paffe through; the last vanke whereof being fifteen (as appeareth in the twenty chapter of this booke) and the borfe placed in the reare of the light-armed it is needfull, if upon any occasion they were to bee drawen through to ferue in the front , the distance of the section Should bee sufficient to gine them pasage with out disorder. And I am the rather confirmed in this opinion, because I see the intervalls between the Roman maniples to proportioned, that the Principes might passe through those of the Hastati , and the Triarij through those of the Principes. But I proportioned out the intervalls to the borfe, not to the light-armed, for that the light-armed may bee divided into severall bodies without inconvenience, but any breaking of the

horse-wedge breedeth a confusion in the whole troupe. Tet where a troupe of horse may finde way , there may a Centuric, or Colours, of light-armed finde also

6 The light-armed are placed after] \* The light-armed were diversity a Adison one, as placed, sometimes before the front of the Phalange, which kind of placing is afterward called Prataxis, sometimes on the wings, and it is called Hypotaxis, sometimes betwirt the files of the armed fronting in a right line with them, and it was called Entaxis, fometimes in the reare after the Phalange, which was called Epitaxis. All these are poken of by Elian heercafter in this booke. b There is another kinde b Adian capes of placing the light-armed, when they are throwne into the midft of the battaile, being hollowed for that , and other purpofes. Heereof Alian likewise treateth in this booke heere after. And albeit the most vsuall embattailling of them hath beene in the wings, yet the bestowing in the reare according to Alians minde hath also advantages. First it concealeth theire number , which because they are shaddowed with the pikes standing before, can hardly bee discerned. Then it is case from the reare to drawe them to any place of fervice without diforder , bee it before , on the Wings , or behinde the reare. Further , it will not bee easie for the enemies borfe to charge them, the armed standing before for a sure defence. Lastly, from the rearethey shall bee able at all times to anoye the enemy, before the battaile ionnes. as some as the battaile ionnes , and all the time of fight. Neither doth this manner of embattailing want examples of the ould historic of the Gracians. The embattailing of Cyrus theelders armie, in Xenophon, hath the light-armed e Kenop Cyrop in the reare. I will fet downe the effect of Cyrus words at large because they con- its it. teine the ordering of an armieto fight according to the judgement of Xenophon. Cyrus then being to trye a battaile with Cræsus thus directs his Commanders : you, faith hee, Araspes take your place in the right wing, as you now doe, and you the other Myriarches, as you are acoustomed. For when the fight is once a foote, noe Chariot may change horses; and command the Taxiarches, and file-leaders, to order theire files every one divided in two parts Phalange-wife, that is each half fronting one with another in a right line. A file conteineth fourean twenty men. Then faide one of the Myriarches, doe you thinke Sir, that wee shall bee able, in this order, to encounter so deep a Phalange, as the enemies. Cyrus answered, the Phalanges that are deeper, then may with their earmes reach the enemy, are they fitt thinke you either to annoye the enemy, or profitte theire frindess For my part I could wish those, that are ranged 100 in depth, to bee in depth a thowfand. For so should wee have the fewer to fight with all. The number, that I give for the depth of the Phalange, I doubt not, but will entirely serue for vie, and maintaine a joynt fight in every part. The Darters I will place after the armed, and after the darters the Archers. For who will fett them in front, that confesse themselves vnable to maintaine a fight hand to hand? Howe then will they hould theire grownde, if they bee fert before the armed! but being in the reare, some with darts, other with arrows, sent over the heads of the armed, will greatly endammage the enemy. And it is cleere, that wherewithall foever an enemy is endamaged, with the same a mans owne side is eased, and relieved. You therefore order your selues, as I haue appointed. As for the captaines of the Targetiers I will hauethem, and theire files, stand likewise next the armed in the Reare, and after them the Archers. And you the chiefe Commaunder of the Reare enjoyne

enjoyne the other reare Commanders every man to have an eye to those vnder him, that they doe theire duties. And let them sharply threaten the negligent, and in case any man treasonably for sake his place, punish him with death. For it is the worke of Commanders both with word and deed to encourage those, they command, & to make the cowards more afraide of them, then of the enemy. This is your charge, but you Euphratas, that command over the Engines, fee that the beafts, that drawe the Engines, and Turrets, followe the Phalange as necre, as may bee. And you Daouchus, that have the charge of the baggage, come with your manyenext after the Turrets, and let your Serieants seuerely punish them, that hast to much before or come to flowly after. And you Carduchus, that rule the wagons, wherein the women are, order them next the baggage. For all these, comming in the reare, will both breede an opinion of multitude, and give vs meanes to lay an ambush, and will force the enemy, purposing to encompasse vs, to setche a larger compasse: which the larger it is soe much the weaker must hee be. And you Artabasus, and Artagerias, each of you leade next after these, the 1000, foote you commande a piece. And you Phranuchus, and Affadatas, order the Chiharchies of horse you commande not with the Phalange, but set them by themselues apart behind the wagons; and when you have done it, repaire to vs with the rest of the commanders. But you are to bee in a readingsee as if you were first to fight. And you the commanders of the Camel-riders place your selues after the wagons, and doe what Artagersas shall bidde you. And you the Commanders of the Chariots, after lotts are cast, let him, whose lotte it is, range himself, and his 1 00. Charriots, before the Phalange: the other two hundred, one of them is to follow, the Phalange on the right fide, wing-wife. the other on the left. So farre Cyrus. 1 haue rehear fed the words at large, principally to showe that the light-armed in ancient time were placed sometimes behinde the Phalange : and yet further also, to represent the manner of embattailing an armie which was then viuall. For heere have you fet downe the place of the Myriarches, & of the other commannders, which was in front, then the place of the pikes, of the light-armed, of the reare commanders, of the Engines, of the baggage, of the wagons, wherein the women were, of the gards for the baggage, both horfe, and foote, of the Camels, and of the Chariots. And albeit many of these particulers agree not with our manner at this day (for wee have neither Engines, nor Camels, nor Chariotts, nor (lings, nor darts, nor arrowes) vet is the reason of warre alike in all, and in our placing also the fitnesse of service prin-A Temp Cyron cipally to bee respected. The place of the horse is heere omitted by " Xenophon , which may be supplied out of the seventh booke, where Chryfanthas Generall of the horse is saide to fland on the right wing of the Phalange with half the horfe, Hystaspas on the left with she other half. But to returne to the placing of the light-armed, the same Xenophon tellifieth, that it was the Agyptian manner to order theire light-armed behinde, of that in the battaile betwixt Cyrus, and Crasus, the Leyptian archers, and darters, were with drawne foor ds compelled by the reare-commanders to shoote, and cast theire darts. wh. w. Thrasphulus in his fight against the thirty Tyrants set his armed in front, and in the grach s 472D reare but argetiers, and darters, without armor, and those that cast fones. And it feea xcooph his. meth by the words of Thrafybulus to his owne fide. that the Tyrants did the like; The Tyrants, faith hee have brought vs to a place, in which by reason of the steep? nesse they must ascend, and can neither cast stone, nor dart, over the heads of theire owne people, that are embattailed before. Where wee contrary wife. whether wee throwe jauelins, or darts, or stones, shall easily reache, & wound

many of them. The stones and darts of the light-armed were to stye over the front of the battaile, and that could not bee unleffe the light-armed were placed behinde: I will adde one example onely out of Plutarch to shew the service of the light-armed in the reare, \* Plutarch discoursing of the battaile fought betwixt Sylla, and Archelaus, the Gene . 2 Plus in some vall of Mithridates, at Cheronaa, hath thus : Afterwards the foote forces came to joyne, the Barbarians holding out, and charging theire long pikes, and endevouring with locking theire targetts close together, to mainteine the order. and closenes of their Phalange: The Romans on the other side, casting away their darts, and drawing their swordes : putte by the enemies pikes in choler, to the end they might come quickly vp to them. For they espied, opposed against them in front 15000. of the enemies slaves, that were enfranchised by Proclamation of the Kinges generalls. & enrolled emongest the armed. And when the Roman Armed coulde hardly breake them ; by reason of theire depth , and fast knitting together ; and of theire bouldnes in daring (contrary to the nature of flaues) to abide the danger of the encounter, the arrowes, and darts cast in aboundance from the Reare, made them shewe their backs, and falling route. Wee finde heere, that the light-armed from the reare effected that, which the Armed could not. These slaves endured the shocke, and could not bee broken by the armed, and yet were defeated with Arrowes, and darts, from the Reare: Nowe for the distance that should bee betwixt the bodies of the light-armed, and betwixt them, and the reare of the armed, Alian faith nothing : I make noe doubt but there ought to bee as great (if not greater) as in the fections of the armed. For wee must understand, that the sections , that served to sever the Phalangarchies one from ano. ther, must runne through the light-armed in depth to the reare. And by them are the Epixenagies to bee devided a funder, as the Phalangarchies are: with Epixenagies answer the Phalangarchies for number of files, albeit not in number of men. Likewife there ought to bee, a greater space in ranke, and file, then the armed had For the bandling of missive weapons, require more liberty of place, then the managing of apike or Sworde. A dart can not bee fent for ciblie without running two, or three, steppes in the delivery of it. A fling being throwne, and circled about the head, before the stone, or bullet, can bee forced out to any purpofe, will not suffer a neere stander by. In bowes, and arrowes, is the like reason, if they be wied as they ought. Besides the light-armed in their fight are tied to noe certainty of order, or grounde, but fight differfedly : Soe that the more grounde they baue, the fitter they are for service. In which respect a large intervall. croswife betweet the armed, and them, should serve to purpose it having liberty for their motion forward, and backward, as occasion should require.

7 And behinde the the Horfe: 7 I have not read in any greek historye, that the horse-men in a sett battell, haue beeneranged behinde the light-armed. The v fuall manner was to place them in the brings. See did Alexander before he paffed the River Gra- b Lecop 4 \$0 nicus : foe at I fos, foe at Gangamela : Soe did Antigonus , against Eumenes , and En- 12 14D menes against Antigonus : Soe & Ptolomeus against Demetrius, and Demetrius against Pto- Cont lemeus: and in brief all the Macedonians, and the Gracians, before the Macedonians there of Died Sent 1 accounted of for master of armes: vnleffe some speciall cause moved an alteracion. And, 19.415 as I shewed out of Xenophon, before all theire times. b Cyrus albeit, hee fet the light Armed 19716 in the reare, notwithstanding hee beestowed the horse in the wings: Alexander having to 7 192 Cd Passed the River Ister as long as hee marched in the corne lande, placed his horse behinde his Tariante Phalange, when hee entred the Champeigne, hee fett them on the right wing : and D.E. lastly cast his Phalange into a Plasium : and ordered his horse before. In the Corneland, they followed (for feare of an Ambushe) In the Champian they marched so tha

tight wing because on the left, the Phalange was secured by the River; before the Plafium, that, being over-layde with the multitude of the enimye, they might have a fure rea Arrian lib. s. treate to the foote. The same Alexander, when hee was to fight the Battaile of Isso with sees to g. 44 Darius, as long as hee was in the streights, marshalled his horse after his foote. But in marching forward, comming to open ground, when he might give full length to his Phalange, hee placed his horse on both the wings. But the reason of setting them behinde was in the streightnes of the place : and hee being incerteine how neere the enemye lay, was loathe to put them to hafard, before they had liberty of grounde to order themselves, and might have assistance of the foote. For otherwise it was an ordinarie matter in marchine (as it is the manner also at this day) to dispose the horse half behinde, and half before. Acroph, hift. I will content my felf with one example. When b Agefilaus retourning out of Afia, passed through Thessalie, the Thessalies of the Thebans, followed him, and fought to endammage his armie to theire vttermost. Hee had before disposed his march into a Plæsium, with the horse half in front, and half behande, nowe when the Theffalians ceased not to molest him, by failing vpon his reare, hee sent to the reare all the horse of the vantgarde, excepting those, that attended his person. Either party prepared them selues to fight. The Thefialians holding it not fure with Horse alone to incounter armed soote: Turning about their faces, began leafurely to retire, and the Lacedæmonians Dowly to followe, Agefilaus, perceaving the errour of both, fent the best of his horse, that were about him, commanding them to signific to the rest, that they together should goe, and charge the Thessalians with all speede, and give noe respite to them, to turne their faces. The Thessalians contrary to their expectation being hottly charged, some fled, other some turned about towards the enimy, other some indevouring to turne, were surprised by theire enemies, that by that time were come vp to theire flancke. Nowe for the reason of Elians placing the Horsein there are, I have no emore to say, then, that from thence shey might bee soone drawen to all places, front, stanke, or where soover the enemy is like to distresse vs. For it hath beene the forecast, of all generals to fashion their battails according to the figure the enemy hath before chosen. Examples are so plentifull, I neede not alleage many. Onely I will remember one latine flory of placing horfe in the reare. L. Lentulus , and L. Manlius Acidinus in Spaine being to fight with the Illergetes, and An-Setans, and other Spaniards, that had revolted from the Romans; in this very kinde of placing horsein there are imitated, and gotte the advantage of, and defeated theire enethy coab , miss. Livy hath the flory, and writes thus in effect : The next day at the rifing of the sonne the Spaniardes being all armed, and set in order, shewed theire The Market barrail, about a mile from the Roman campe. The Ansetans were in the midmarket barrail, about a mile from the Roman campe, the Ansetans were in the midmarket barrail, about a mile from the right winge, other obscure people of Spaine the
table as a live face. left: Betwixt the wings, and the middle parte, they left broade intervalls, to giue passage to theire horse: (when time should bee) to send them through to charge. The Romans Embattailed after theire wonted manner, Onely then imitated the enemy, in leaving open waies, for the horse betwixt the legions. And by Sylla Lentulus imagining that partye, and none other, should have vie of theire horse, that first possessed these intervalls of the adverse battaile, commaunded Cornelius the Tribune to give direction to the horsemen, presently to charge through, the foote on both fides came to blowes, and the fight was hard, when the Roman horsemen passing through the Spaces, and falling vpon the middest of their enemies at once disordered the battaile of foote and shut wp the wayes against the Spanish horse; by which meanes, after noe long

fight, the enemy was vtterly defeated. Where Livy faith the Romans embattailed after theire wonted manner, his meaning is they ordered them selues in Maniples. or Battallions, as wee now terme them (for that was theire woont.) But when hee addeth, they imitated the enemy in leaving open waies for the horse, betwixt the legions. Wee must understand that a legion was thus embattailed: \* First they di- a Livedond. . vided theire legion in to thirty Maniples, ten of the Hastati : ten of the Principes, and the size sen of the Triarij. The ten maniples of the Hallati, they fet first in an even front, leaving (oc much distance, or voide grounde betwixt every Maniple, as a Maniple it self tooke up in standing. At a reasonable space behinde, were the Principes placed in as many ma. niples : but for that theire maniples stoode directly behinde the voide spaces of the Hastati. And against the bodies of the halfati, they left likewife spaces in the Principes to the end. the Haftatt being overlaid, might resire within thefe fpaces: or elfe themfelues might advance against the enemy, through the intervalls of the Hassati. Lastly at a larger distance behinde the fe were the Triary fet, and divided with spaces between every maniple, which Spaces were great enough to recease the Principes, in case they retired also. Now the Horse being ordered in the reare after the Triary, if from thence, they had gon to charge the Enemies from , through the spaces of the Triary , they must of necessity , have fallen upon the Maniples of the Principes whoe were fer direct, y against the intervalls or spaces.

To give therefore free passage to theire horse, the Roman Generals removed the maniples of the Principes from theire ordinarie place, and bestowed them, in a right line, after the maniples of the Hastati, and made an open lane, (as is were) from the reare of theire bastell so the front So that nothing hindred the hor le, but they might freely fly up to , and fall up. pon the enemies from. And yet I take not Alians meaning, to be , that the Horfe fer in thereare, should during the time of the fight still remaine there. For soe would not great fervice bee had of them. But hee placed them there the rather to avoyde confusion in ordering the foote. And that after their e embasteling, they might bee led from thence so any place, front or flanke, or where soever they might yeeld most wie. For in the fifteenth and twentith chapter, he would have both light armed, and her fe foe placed, that they might answer all assempts of the enemy. And in his causion following, hee faith, if occasion require both horse and light-armed, may bee otherwise placed. That shey were visually placed in the Wings, I have before shewed. The examples declare they were placed in the veare Cometimes:

Of placing in the front there are also examples. The Lacedamonians at the bastaile of b Xmoph, the Leuctra against the Thebans placed theire horse before their Phalange, and tried their fortune With them, and were beaten, before the foot cioyned: The Perfians at the River Gra- c Pinarching. nicus, esteeming theire Horse to bee theire chiefest strength, opposed them upon the bancks in blanda. against Alexander, that was to passe over, and embassailled their foote behinde the horse And Alexander encountered them first with his Horse, before his foote could get over: One example more I will adde to shewe the reason, why Horse are sometimes placed before the from of the Visilange of foote. A Eumenes being to fight against Craterus and Neoptolemus, 4 Pinnich in ve both grease generalls, that had served under Alexander in all his warrs, ordered the fight a homenin all thus: Because hee vnder-stood, that theire Army confisted of twenty thowfand foote, the most parte Macedonians renowmed for their evalour, and skill in fight (In whom they fet theire greatest trust) and of more then two thowsand horse; and knewe his owne foote, albeit they were as many in number, yet all to bee ramasses of diverse kinds of people, and that his owne horse were five thowfand, with exceeded the enimy both in number, and valor, hee determined to hafard the battaile vpon his horse, before the two Phalanges of foote should come together: Advancing therefore with his horse farre before

his foote, hee tooke the right wing himselfe, and gaue the left to two Grangers, to Pharnabarus a Persian the sonne of Artabazus; and to Phenix a Tenedian: Craterus stood in the right wing of his owne horse, and placed Neoptolemus on the left. And feeing the enemies horfe comming forward, with greate fury charged them first, and fought brauely. But his horse failing vnder him, hee fell to grounde, and it being not knowne, whoe hee was by reason of the medly, and throng of those, that gaue backe, and fled, hee was trampled under foote, and ended his life after a strange manner. By his death the enemy tooke courage, and encompassing theire adversaries on all fides, made a great flaughter, and the right wing, after this manner, with might overpressed, and put to the worst, was faine to sly for succour to the Phalange of foote. In the left winge Neoptolemus stoode directly against Eumenes, and the mutuall fight of eche bredde a greate emulation betwixt the generalls, and a fervent defire to come to hands. And being eafely knownes both by theire horse, and other marks, they flewe one vpon another; and out of theire single fight made away to a consequent victorie. And first they affailed one another with fwords, and after fell into an vnlooked for, and wonderfull Monomachy, for being transported with anger, and mutuail hatred. quitting the raines of theire bridles, with theire left hands they eache feazed. and tooke hold voon the body of other, which hapening, and the horfe continuing theire careare, and springing from under them, they both fell to the grounde, neither of them could wel arise by reason of the suddaine, & violent fall, and of the heavines of their earmor. Yet Eumenes got up first, and prewented Neoptolemus, stricking him on the ham. The wounde was wide, and his strength of footing thereby failed, & soe lay as one, that had no evse of his legge, being not able to raise himself because of the hurt : notwithstanding, courage overcoming the weaknes of his body, hee lift up himselfe upon his knees, and hurt his adversarie in the arme, and thighes, giving him three wounds. But none of the wounds were mortall, and they being yet warme, Eumenes with a second blowe hitting his necke, slewe Neoptolemus outright. Whilest these things were a doing the rest of the horse fell together. Many were flaine on either fide : fometherefore falling, other being wounded, at the first the daunger was equall. Afterward, when the death of Neoptolemus was openly knowne, and that the other wing was put to flight, every one shifted for himselfe, & made towards the Phalange of foote, as to a strong wall of defence to faue himselfe. This was the iffue of the battaile. Wherein Enmenes, placing his horse before his foote, because hee held them his strength, and with the trieng the hazard of the day, shewed him self, both in councell, and action, a greate genevall. And Craterus on the contrary side, albeit highly esteemed emongest the Macedonians, as one, that had with creat sufficiency served Alexander in all his warres, yet failed In judgment, in that hee chose rather with his horse to encounter the stronger parte of his enimies forces, then with his Macedonian Pholange (which Eumenes himself feared) to trie his fortune. For as it is a pointe of forecast to knowe a mans owne advantage, and vse it : Socit is noe le Je indgement, to knowe wherein the enimye is fronger, and avoyde yt. Eumenes did both : for hee vled his owne horfe, which were his strength , and brought to passe, that Craterus his Phalange did him noe good , in as much as they never came to fight. Craterus failed in both , in that hee neither brought his Phalange to fight , nor yet provided sufficientlie to encounter Eumenes horse; which exceeded his in valour, and number; so appeares both that horse were placed before the front of the soote; and also the florie gives the reason, why they were placed there.

Of the number of the armed foote, of the light-armed, and of the Horse.

CHAP. VIII.

TOw are wee to lay out, what number the armed-foote, the light-armed, and Now are weet to lay out, what hamber the Horfe ought to bee, and how particularly ordered, and how vpon october the Horfe ought to bee, and how particularly ordered, and how vpon october the Horfe ought to bee, and how particularly ordered, and how vpon october the Horfe ought to be a second wind the Horfe ought to b casion the Bastaile may speedely be transformed into divers shapes, & formes, and what discipline vied for the motion of the severall parts of it. Wee can. not with any probabilitie set downe a precise number of forces to be levyed. For as much as every man is to proportion his levie according to the importance and qualitie of the warre in hand. This yet must not escapevs, that such a number is to bee chosen, as will fitt : the divers shapes, and transmutations of our Troopes. As if in case were to double, or to multiply, and manifoldly enlarge the length of the Phalange, or els to lessen, and drawe it vp into a narrower roome. For this cause choice is made of a number, that may be, reparted into half continually, till you come to one. Hence is it, that most T4dick writers would have a Phalange to confift of fixteen thou fand, three hundred, eightie, and foure armed foote, and of half fo many light-armed, and of half as many Horse, as light-armed. For 16384. may bee reparted continually into half, till you come to one. Therefore for proofe, and Examples fake this numbers is admitted. And where wee have allotted fixteen men to every file, the whole maffe will arise to one thousand, twenty, and soure files.

# Notes.

THE Chapter before spake of she parts and dimension, of the Phalange, and of the place of the armed, the hor se, and light armed. This treatesh of the number that goeth to the Phalange. In chois so of Whith number, Alian sith consideration is not se much back had of multitude, as of hines for service. For such a number as cannot apily bee disposed of for the strainer meanes of confusion, then of order without which not fight can be mainteparts, the beechole in a Will serve.

I The diverse shapes, and transsmutations of our Battaile] Fuery motion, in the battaile makes not a Transsmutation, or diversities shape is the truning of siaces to the one hand or other there is now other shape of the Phalange, then Was as first. As a man turning his face any Way, the same proportion of sinceness is remained that Was in the before. So elikerist in countermanch or wheeling after the Countermanche, which in it is done, every soldier if he keep his right distance, and remaine in sile and ranke, buth the place he had before \cdot And see no extranssignation of length or of depth followeds. The motion then, that Asia meanes to make Transpoutation, are Doubsinges: For Whether you enlarge the length, or depth, of your Phalange, you straight induce another libere. A long frenced Phalange, and a terse differ much in forme. If you will make of the and started Phalange a herse, you are to double your files so often, as your thinkse convenient for the surge to syon herse. Then if from the sters, by our would return it to the fift forme, you are not to cease coubling Ranks, till you have gained that forme: Whensie if of your orduraire Phalange, you valid make a stong fromced Phalange, your rankes are to be a durable Quantinaing your doublinge, you may drave our Was length you will. And

contrarywise, by due doubling your files againe, you come to the first forme : How much you double your Ranks, See much you take away from the depth of your Phalange; us on the other side, doubling of your files, diminisheth the length. For the purpose, your Phalange is fixteen deep, double your Ranks ; the depth hath but eight men ; double it once more, and it hath but foure. Soe is the Phalange confifting of foure ranks, & energ ranke, hath foure thousand, and ninty fix men in it : But the length is foure times as much as it was . In like manner doubling your files (which in Alians Phalange are a thou-Sand, and twenty foure) the first doubling loseth fine hundred, and twelve files and soe many remagne the second seven hundred, and sixty eight, and two hundred fifty six remaine; and soe many men have you in a ranke. But where the Phalange was but fixteen deepe, nowe in the second doubling it is become fixty foure deep: If you please to reduce is to the first forme, two doublings of ranks will fuffice. Heere wee must waderstand that doubling ranks, is not to make twice foe many as they were before, but to give twice so many men, to every ranke, as they had before by infertinge the even ranks into the odde; as the second into the first, and the fourth into the third, and the sixt into the fineh, and the eight into the feventh, &c. The vicof doubling I will shewe in my notes upon the swenty nine chapter of this booke. Elian therefore would have his Phalange, of fuch a number as may bee reparted continually into halfe, till you come to one; Which number hee faith to bee fixteen thousand three hundred, and eighty foure And ge arisethout of the Multiplication of one by two soe still doubling the product, till you have made up she full number, of fixteen shou fand, three hundred, and eighty foure. And as the Multiplication by two begetts this number, foe it being divided by two continually, it may bee reduced at last to one: which is the thing, that Alian aymes at. For the numbers that have not equall division by half leave some supernumerary men in the Thalange: (which) in doubling will desorder both files, and Ranks: Every man acquainted with the lowe countrie militarie exercife at this day, knoweth, that when there is an uneven number of siles, the odde file supernumerary brings a difference, and cannot bee doubled in the fort as the rest are: Isin fine, seven, nine, elenen, severall bodies of files. Two, six, eight, sen, may well bee doubled, and become two, three, foure, fine files a piece : but the fifth, Seventh, ninth, eleventh, must bee severed from the rest of the doubled files; and serve to noe purpose, being not matcheable in depth with the rest after theire doubling. The same reason is of ranks : Now when Elian saish , that this number in a Phalange may bee devided by half and reduced at last to one, wee must with all understand, that the file of the Phalange in such division, ought to be either of eight, or sixteen men a piece. For noe number under eight, except foure, or two (which fitte not the depth, of a Phalange) nor betwixt eight, and fixteen, is divisible by half, till you come to one. Noe nor aboue fixteen except in bee produced out of the duplications of sixteen. A file of 12 comes nearest. And of that mamber was the file of Cyrus in Xenophon. Such a file notwith fanding by deut fon of two flaies at three, and can descend noe lover. Ten was the old file of the Gracians, and it was Town enon, called Decas. And albeit after trard wpon better consideracion they enlarged the number of the file to twelue, yet they received the name of Decas still. But ten received but one divifion, and goeth downe ward noe further then five. The uneven numbers under fixteen canwas bee divided at all. Vales by fraction. As thirteen, which if you will draide by halfe, the quotient will bee fix, and there remaines han odde man over : of which number, if all the files of the Phalange Should bee, you frould have a thoufand, two hundred, and fixty, Which Will receiue moe more, then two doublings without a fraction. If then the files be abone fixteen, and under thirty two, you cannot drusde them continually by haf, but you must faile of the manner, that Elian speaks of. As for the number of fixteen thou find, shree hundred, and eighty foure, albeit of us felf it is dien fible by two sill you come or disfeend

to 1, yet we mnst not consider it apart, as an abstract by it selfe, but as it numbreth, and is applied to the Phalange. In which respect, it gineth a 1024 fiks of 16 deepe, which files will still hold out the doubling, till you come to one file.

3 A Phalange to confift of 16384 ] Alian (out of the most Tattick writers as he professeth) will have the Phalange of jixteene ibouland, three hundred, eighty and fouremen. I have noted before that a Phalange may be more, or leffe, than this number. But Itake this to be the number of the Macedonian Pialange. Appian seemes to testifie a Appian in with me, thus he faith: Antiochus whole aimy coniffed of 70000 men. Of Syrianister. B. which the chiefest strength was the Phalange of Macedonians, conteining 1 6000 men, ordered according to the forme, that Philip and Alexander had before vsed. He placed them in the middle, dividing the 16000, into 10 equall parts, in every of which parts was 50 men in front, and 32 in depth, and vpon the flanks of energy part 22. the shew of the Phalange was like a wall, of the Elephants like turretts: hitherto Appian. I have translated He Phalanx, He Macedonon according to the word, the Phalange of the Macedonians, where the right meaning is, the Macedonian Phalinge. For it confisted not of Macedonians, but was armed, and ordered, after the Macecon an manner. For how was it possible for Antiochus to wage, and haue in his service 16000 Macedonians, being neuer him/elfe King of Macedonia, and the King, that then was (namely Philip the Sonne of Demetrius) was his enemy, and in league with the Romans? Besides Appian bath in expresse words: the Phalange was armed, and ordered, according to the inftitution of Philip and Alexander: whose manner Antischus mought well reteine, considering he was limally descended from Seleucus, the succeffor of Alexander in the kingdome of Aftiria: And Seleucus had beene in the feruice of Alexander in the whole conquest of Perfia. b Liny faith also, the ywere armed after b Lin Decad. the Macedonian manner. Whereby a man may inferre, they were no Macedonians: Hee 4 16.7.141.A. speaking of the same battaile (which was the battell of Antiochus against L. Scipio) hatb thus: The Kings army was mingled of fundry nations, and divers with diffimilitude of armes and aides. There were 16000 foote armed after the manner of the Macedonians. They were called Phalangites. This was the middle of the battell, and in front divided into 10 parts, which parts were diftinguished by placing 2. Elephantsin each intervall. The battell had 32 rancks in depth. It was the principall firength of the Kings forces, and both with the other shew, and also with the Elephants, which were eminent amongst the Armed only, brought with it great terror. Liny faith the 16000 were armed after the Macedonian manner and were called Phalangites; Appian, that there were 16000 ordered, and distributed according to the ordinance of Philip and Alexander. Liny, and Appian, both agree, that there was 10 parts, and every part severed with intervalls, and had 22 men in depth, which is the Macedonian file once doubled. Livy Speaketh not of the number of the length of the Phalance. Appian faith plainely there were 50 in front, of every of the 10 parts, which amounts to 500: for 10 times 50 makes 500. Wow if you multiply the length of the Phalange which is 500 by the depth, which is 22, you have the 16000, whercof Liuy and Appian fake. But yet refteth a doubt, in the difference bet wixt both these authors, and Alian. Livy, and Appian, both gining but 16000 : Elian 16384 to the Macedonian Phalange. For Livy, we are not much to infist wpon him, who being a Roman (we may probably conicciure) was halfe a stranger, in the Art Tacticke of the Gracians, and that, which he wrote, he had from others; perhaps no better skilled in the Same Arithan himselfe. Appian was a Gracian (for so those of Alexandria in Egipt accounted themselues, after Prolomy the first had established that Crowne in his family) and as his historic sheweth, well acquainted with the order the Gracians held in embatteling their armies, and therefore we may the better rely upon his authoritie. Who albeit hee first affirmed the Phalange was of the number of 16000, yet after in numbring the depth and length alone, he findeth 16000: and further expounding his on ne meaning he sheweth, there were more opon the flanks of the ten parts, into which the Phalange was duited. His words import: That Antiochus divided bis Phalange into 10equall parts, oiling every part in front 50 men, in depth 22; which being multiplied together, make up the 6000. He addeth; And in the flanke of every part he let 22. If the meaning be, he (et 22 vioneach flanke of every part, the parts being 10, and the flanks 20, the number will arife to 440, where Elian alloweth no morethan 284. But if 22 were added to one of the flanks of each division, r. bich also being collectively taken are flanks in the plurall number, we shall come short and finde no more han 220. Tet whether fense of both you aamit, it is plune, that Appian attributeth more, than 16 thousand, to that Macedonian Phalance. And it may be, there is an error in the number of the 22, and that it ought to be written : 2. For if Antiochus had given 32, as he gave 22, to one flanke of every part, and let 22 upon the ottermost flanks of every winge to strengthen them, of the 12 times 32 had arifen the inst number of Alians Phalange; which number is the fittest, for vee, and for division of the Phalange in all doublings. The armed foot: then, according to Elian, ought to be, 16284. The light armed.

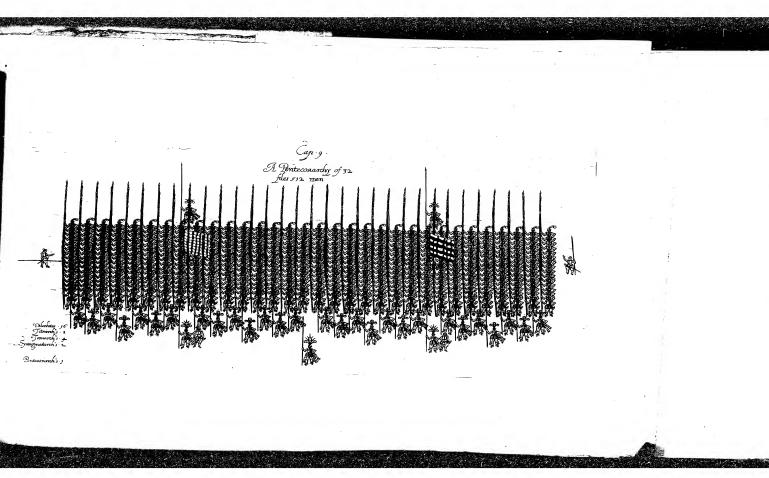
4 Halte fo many \ The armed among it the Gracians, were accounted the frenoth of the field, which was the cause their number was greatest. For you shall not finde in their battailes for the most part, that the light armed amounted to halfe the number of the armed: The fact of Cyrus sheweth what account be made of light armed: 2 Xeno-Cyron, lib.7. phon reporteth it thus: the led with him the Lydians, those whom he saw to take delight in Armes, horse, and chariots, and willingly doe, what they were commanded he gaue armes to of those whom he saw followed him against their wils. he gaue the horses to the Persians, that were his first companions in Armes. All that followed him vnarmed, he exercised to the sling, because he reckoned that weapon most servile of all others. How much you increase the number of the light armed, fo much you diminish the number of the armed, and by consequent fo much weaken your field. For the light cannot maintaine any stable fight, but in case of danger they are forced either to show a faire paire of beeles, or elfe retire to the armed for succor : Tet feruetter for many refesioned with the armed. And the proportio that Elian fetteth downe, namely to have halfe as many of them, as there are armed, flandeth to good reason, o vie The Romans notwithstanding, were more sparing in their light armed of allowed not about the 4th part of them, or little more, to the armed. The Legion conteined (faith Polybius) 4200 footmen. Of these they chose 600 Triarians, 1200 h stati,1200 Principes, (which come to 3000) and the rest Velites, which were 1200. And the Velites were the same in effect amongst the Romans, that the light armed among st the Gracians, albeit their arming Somewhat differed. Elian before shewed, that the Gracian light armed had no manner of defensive armour, but offensive only, as bowes, darts, or stones. d Polybus describeth the Armes of the Velites to be a Sword, a Parma, (which is a small Target,) and daris; the sword a spanish sword, the Target a little round Target, a foote and a halfe ( for fo Cafaubon correcteth Tripedon) in breadth; the darts in the steale a footelong, and a singer thicke, and the head ale Live Decad. inoft a foote long. And Livy mentioning the skirmifhes, that fell out betwirt the 4. lib. 1995 16. horsemen of King Philip of Macedonia, and Sulpitius the Roman Conful, compareth both their Armiestogether, telling that either party had their light armed toyned to their ho fe, and that comming to fight, the Romans had the better. So (faith he) neither the Kings horse, vnaccustomed to a stedfast fight, were able to match the

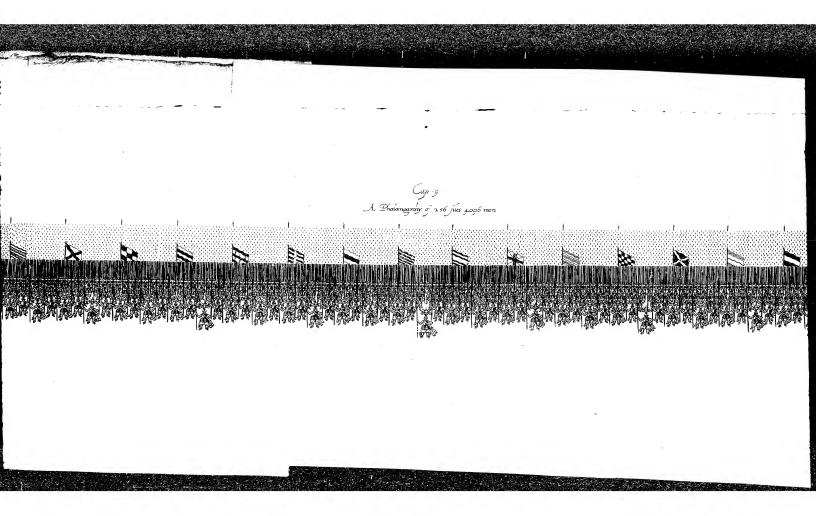
Roman horse, nor yet the soote skipping and leaping here and there, and almost halfe naked in their kinde of Armes, to be compared to the Roman Veles, having a Target, and a sword, and being armed sufficiently both to defend himselfe, and affaile his enemy. The number then of Alians light armed, ought to be 8192, and thefe being ranged behinde the armed 8 deepe ( so they are fittelf for fernice) will make

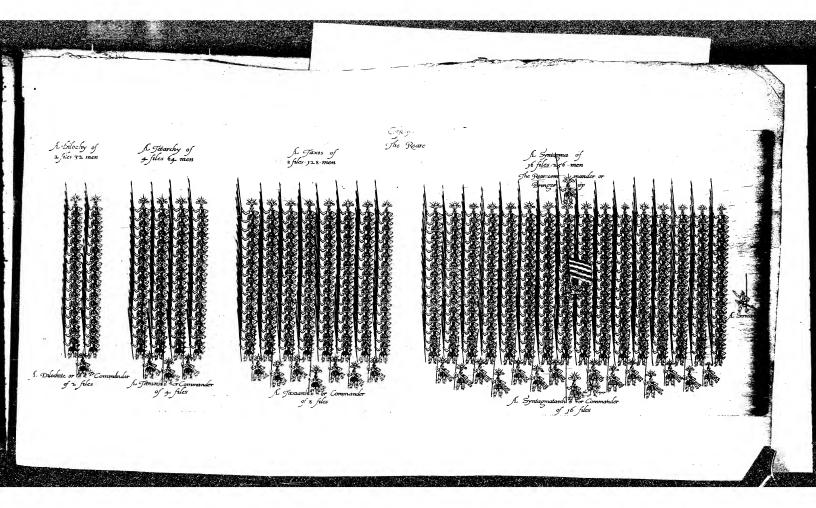
Halle as many horse, as &c.] The horse are in number 4096, and proportioned to the foote (comprehending the light armed) as 1.106. The armed foot, and light armediogether make 24576: the horfe 4096. And this was Alexanders proportion, 2 Diodoc St.; when he moved first against Darius. For he had about 3000 foote, and 5000 horfe, cul. lib 17. 171. or not many more, as Diodorus saith. Lustin gives him 32000 foote, 4,00 hors. b suffin lb.it. Tee this number held not alwaies among if the Macedonians themselues; I meane Alex 638. anders Captaines, that possessed his kingdomes after his death. Thereason may be, that in Civill warres they made their levies, not as they would, but as they could. In the bat . Diod. Sicol. taile betwirt Eumenes, and Craterus, (I spake of that battell before) Craterus had lib. 18.644. 20000 foote, & 2000 horfe; Eumenes had 20000 foote, & 500 horfe. Craterus the proportion of 1.10 10; Eumenes of ; to 4. d Antigonus fighting against Eu- d Diod. Sicul. menes in Cappadocia, had in his Army abone 10000 forte, and 2000 horfe; Eurne-lib. 16.649. nes ned as before. Antigonus horfe were to the faote, as 1. to 5. "The fame Antigo - e Diod Sicul. nus fighting against Alcetas, the brother of Perdiccas, had in his Army 40000 foote, 115.18.651. and more than 7000 horse; the proportion well nich of 1. to 6; Alcetas had no more than 16000 foote, and 900 horfe, failing much of Elians number. Antigonus in f Died. Sicul. his second battell against Eumenes, had 28000 footmen, and 800 horse, which is 1. to lib. 19.685. 3. and halfe; Eumenes had 3 5000 foote, and 6000 horfe, very neare Elians proportion. Many other examples are to be read in Diodorus. But (as I said) these are Ramailes proseeding not of choise, but of necessitie, which forced them to take such, as came toband, as it alwaies fallethout in soldaine leuies. And it seemeth the number of horse (allowed to the foote by Elian ) was King Phillips proportion; considering Alexander weed it & after be received his armie from Philip, who by premeditation, and fore-choice, g Diod Sicul. had gathered it together with intent to invade Persia. And yet I finde h that Philip 16.16 sto. has gainerea is ingener una man har he Athenians end Beotians at Cheronea, had more h Diod. Sic. himselfe, when he fought against the Athenians end Beotians at Cheronea, had more h Diod. Sic. than 3000 foote, and 2000 horse; which is 1.10 15: and in discers other fights differed from Elian in the number both of horse, and foote. But the question is not, what was done, but was best to be done. And the number that Elian speaketh of suites his Phalange best. For Philips device being to cast the horse into wedges of 64 horse a peece, and into 64 troupes; the greatest ranke of ech wedge being 15, will in thereare equallibe from of the armed, and of the light armed; not in number of files ( for the files of the foose were 1024. and the greatest ranke of the horse, no more than 960) but in quantitie of place giving to the hotle, standing in their order of 6 foote betwint man 6 man, the 128 cubits of surplusage toward the difference of the horses bodies, and toward the small spaces that are to be left, betwixt Troope, and Troope. The Romans ; Polyblib 6, allowed a farre lefferate of horse to the foote. In a Legion, according to Polybius his 473. C. account, there were of Cisizens 4200 foote, and 300 horse; of allies, and consederates 4200 foole, and 600 herse. In a Consular Army were 2 Legions of Cuizens, and 2 of Allies, which came to 16800, a number not much differing from Elians Phalange of foote. Of horse 500, Allies 1200; in all making 1800; which commeth much short of 4096, (the number Elian alloweth to bis Phalange) and holdeth proportion of about 1. to 9. The reason of this difference, may appeare in the fact of Eumenes; who not & Diod Sicu 1. much trusting his forces of foote against the Macedonians (accounted the best fouldiers | b.18. 643.

b Xenoph.

468. B. C.







fill their number, and have every one a severall Commander. The least is two files in med together, which is called a Dilochy; And because there are in Phalange 1024. files, there must also bee \$12. Dilochies, which consist of two files a peace. If you double this body of two files, and make thereof a body of foure files, it hath an other name, and is called a Tetrarchy, of which Tetrarchyes there are 256. in a Pinalange. Double agains these 4 files; and make 8, the body is called Taxis. And these eight files, being doubled bring out the Syntagma of 16. files , which is a square number of men, 16. in the front, and 16. in the flancke. And so proceeding still in 6. doublings more, you come at last to the fourefold Phalange containing the number of 16384. men, and 1024. files. Now as in the Phalange there are 10. bodies out of these doublings, the Dilochy being the first, and the fourefold Phalange the last: So doth Elian, appoint for every body a Commander, who albeit they fenerally command, each his owne troupe, yet are they subordinately one under another, the leffer under the greater till at last the fonerainty of the command rest in the Genevall of the Army. \* The Dilochites are directed by the Tetrarches, the Tetrarches by the 2 Xenoph. Taxisvehes, the Taxisvehes by the Syntagmatarchs, the Syntagmatarches by the Pentecoff. 6.10; A. arches, and they by the Chiliarchs, oner whom are Merarches, and over the Merarches the Phalangarchs, and over them the Commanders of the winges, or Diphalangarches, and the fourthing of the Armie or Generall is the highest, and last. The number of these Commanders a man would think were to no great purpose being in all (the 2. Diphalangarchies therein comprised ) 1022, besides the file Leaders, which standing in the heades of their files, amount but to two men more; that is to 1024. For formany ( as I have faid) are the files of the Phalange. But if the conveniency be observed, it will not seeme impersinent. For all the Leaders being in front, (therefore are they called Leaders, because they pre- b Xenoph. cede, and the rest follow, ) it makes both a gallant shew; and that rancke being as it were, Cyrop. lib. the edge of our battaile, not only fernes to hew a funder, and rent apieces the forces of our 25. C. enemie; But also standeth as an assured bulwarke of defence before the rest of the Armie, that followeth. And it is well noted by Leo, that the multitude of Commanders c Leo cap. 4. (in orderly divisions) both signifies, that there are many worthy and valiant men \$13. in the armie: And is a meanes to keep the Souldiers in greater obedience, and to give vindoubted effect to all directions. Of what qualitie and disposition, these Leaders ought to be, you may (ee in the \* fourth Chapter of Leos Tactickes. Onely I will \* Leo cap. 4adde, that as they are higher in dignity, so ought they in vertue and valour exceede those, that are under their command.

I A Dilochy | Consists of two files; for so signifies the word Dilochia: and the Lea-Dilochia. der is called a Dilochite.

2 A Tetrarchy of foure files; and the Leader is called a Tetrach, one that hath the command of four efiles. And here I must once more admonifo, that in the words of divers signification, we must not weigh, what is the proper signification, but how they are weed in this Art, and booke.

For the word Tetrarch lignifieth Cometimes a King : as Helychius hath : and d Deis- d Cicero id tarm in Tully is called a Tetrarch, and e Herode in the Gospell; who both are common-orat. pro ly knowne for Kings. Theffaly likewife was divided into 4. Principalities, Theffali Denaro. oris, Prhioris, Pelasgioris, and Astiotis; whereof every one was named a Tetrarchy. Onely the difference is, that a Tetrarch being a King, or a Governour, fignifies him, that hath the government of the fourth part of the land, for a Tetrarchy is the government of the fourth part) But a Tetrarchy in Alian signifies a body military consisting of foure parts (4. files) and the Tetrarch commands not over one alone, but over all the 4-parts. 3 A Taxis ] As the word Tetrarchy is diverly taken, so is Taxis likewise. For

Sometimes is imports Order in a generall signification, as Inoted before: Sometimes the

rop lib. &. : Xenoob.Cvrop. lib. 2. 43 D. k Polyen.lib. 3. 5 10 in 1; hi-

f Polyb lib. 3. forder of a battaile: 5 sometimes a company of any kinde of Souldiers, foote, or horse 225. B. & lib. as Taxis Pelraftarum, Taxis Equitum; Sometimes a fingle Phalange, as in h Arrian 11.639 E. g Kenoph de mention is made of Taxis Oceni, Taxis Perdiccæ, and Taxis Meleagri &c. who were Phalangarches, as the story show th. i Sometimes for all the armed, as Taxis Pha-325 B exty- langitarum : Sometimes a rancke of men standing embattailed, as in Thucidides, who discribing the bastell of the Lacedemonians, (ath the front ( which he calleth the first b Arran lib. 2. rancke teen proteen Taxin ) consisted of 448. Eut in a more speciall signification it is taken for a band of Souldiers. And in that fignification the number varieth. In Xenophon, it comprehendeth a hundred men : What the number of the Athenian Taxis was, I finde not delivered by any Writer. That they had Taxiarchs & Polyenus Sheweth plainely. And if a man with leave might geffe, I would imagine their Taxis confifted of 250 men : For I finde in the same place of Polyenus , that they had Chiliarchies, Pentecosiarchies, Taxies, and Lochagies. I have before shewed, that Lochos in Xenophon is made sometimes of about 100. men. Out of which may be inferred with probability, that Taxis, being the next degree about the Lochagie, hath the double number, or more; The rather because a Chiliarchy having in it a 1000. the Penticofiarchy must have 500, and by likeliheed the Taxis 250. as being the next office under the Pentecofiarchy. But whatfoeser the Taxis of the Athenians, or of other people was. Æli an maketh his Taxis up with 128 men, and 8. files; which is a double number to the Tetrarchy. With whom Suidas agreeth, giving 2. Tetrarchies to a Taxis: and laish it consists of 128 men. The Commander of the Taxis is called a Taxiarch, as the Commander of the Tetrarchy is a Tetrarch. Here I am to note by the way, that the Interpreter of Xenophon translateth Taxiarcha, the Commander of a Cohort; where Taxis in the straighter signification cannot be taken for a Cohort because a Cohort differeth much in number, having in it at the least 500. and odde men, where the Taxis, when it is greatest hath no more then 128. And 1 Polybius faith plainely, that spira is the Greeke word, that fully expresseth the Romane Cohort.

lib. 12 291.

\* Cap. : 1.

· Suidas in

A Syntagma The word commeth of Syntaffo, or Syntatto, to place together; and a Syntagma is a body compounded of many parts artificially put together. " But it hort Syntama, may be taken for any body in the armie. " Diodorus reports of Dionyfius the elder That lib. ( 041. C after he had divided his whole Armie, ( which had in it 30000 ) into three parts, n Died Sicul he imployed two against the Carthaginian Campe in divers manner : himselfe tacke the Syntagma, or third part, which confifted of mercenary Souldiers, and led against that quarter of the campe, which had the Engins. \* Ælian alfo vfeth the word diversie: For he calles the whole armie by the name of Syntagmata, in the plurall number, and sometimes Syntagma in the singular. And further gives the same name to a file; Suidas likewife discribing the length of a Phalange, faith, it is the first rancke (Symagma) of file Leaders, which stretcheth forth in a right line from winge to winge. Whereby appeareth that which the Logitians affirme, (which I touched before) that there are more things then names of things: And that fit names cannot be given to all. The names that have beene given by antiquity, to expresse the severall bodies of the Phalange, are to be reteined by vs, as proper enough to fignific the thing they meant. Neither are we to vary from them, waleffe we our felues can invent better. The Syntagma that Alian here mentioneth, is framed of two Taxies, that is of 16. files, & of 256 men. The Commander of it is named a Syntagmatarch. And where he addeth, it is called of (ome 4 X enagy, we are to underland that ? Xenagos was he ( among the Grecians ) that had the command of a band of firangers, (as he that levied firangers was called a Xe-Iul. Poll. lib.t. nologos ) and the band it felfe was called a Xenagy. Why the Syntagma fould have the ap 10. notogos) and the variation of Xenagy, Icamor divine; wheffe the reason were, because it was about the

number, wherof strangers made their companies, that served amongst the Gracians, And I thinke , and thall till better information, that the body of the light armed called a Xenany mentioned bereafter, had that name likewile for the same reason. Now of all the bodies in this Chapter mentioned, there is none that commeth fo neere the companies weed at this day, as doth the Syntagma, for (excepting that our numbers differre, and are in diners places more, or leffe ) the offices of each are alike. Tou have in the Syntaging & Lieutenant or Reare Commander; fo in our Companies. In the Syntagma, is an Enflone. and an Enfigne-bearer; the like in our Companies. In a Syntagma is one Sergeant, our Companies have more. The Syntagma had a trumpet, and our Companies for the most part have two drummes. We onely want a Crier, which every Syntagma among ft the Macedonians had. What the wife and place of all the Officers was , I will straight

5 Fine superordinarie men; ] Namely the Ensigne the Reare-commander, the Trumpetter, the Sergeant, and the Crier of whom we last pake. That which I translated Superordinary, is in Greeke Ectactoi. Suidas gines the reason, why they were for Suidas in called : because (aith he, they were not numbred as part of the battaile, that is ordered in Eddacs. files & ranckes. As Xenophon faith of Miriarches, Chiliarches, and Taxiarches, & (Xenoph. Cy. other Commanders ( whom Cyrus called to him ) that they were not recounted among f rop. lib. 3.78. the militarie numbers, and might depart from the Phalange without altering the forme thereof. In the files they could not be, because they should so increase the number in the files, and make one longer then an other, and hinder doublings, and other metions besides the deformity, they should bring in, in making the battaile vneuen: And a file of themselves they could not make. The like disorder would they bring in the ranckes where they could not conveniently stand, unlesse some body filed with them, being much short of a file of themselves. Besides their imployment is to stirre here and there apart, as they are commanded: where they of files, and ranckes never move fingle, but jointly, as shall feem good to their Commander. And albeit the fe five bee removed from the bastaile, yet remaineth the battaile without them entire of it selfe, and in perfect forme, as though there were no neede of them, when notwithstanding their ve is otherwise to needfull that although the battaile may be, it cannot well be without them.

An Enfigne ] Our wfe is to call the Enfigne-hearer an Enfigne for breuities fake; As a Drummer, a Drumme, a Trumpetter, a Trumpet; and that not abfurdly. A diffinition will eafily appeare in common speech, by the application of words of circumstance to the one, or the other. The end why enfignes were divised appeareth in Diodorus Siculus: Diodor. Sthe gining druers reasons, why the Ægyptians (whom he accounted the ancientest of men) were carried away with superstition of worshipping Beasts, after the manner of the Countrey, hath among st other words thefe in effect : A second cause the Egyptians give. because of old time being in divers conflicts thorough disorder in their Armie, vanquished by their borderers, they had recourse to the invention & bearing of Enfignes in their troupes. They fay therefore, that preparing images of the beafts, they now worthippe, and faftening them to the ends of long staues, the Commanders caused them to be borne aloft; by meanes wheref enery manknew of what troupe he was. And seeing this good order availed much to victorie, they conceined, that the bealts were the cause of their safety. In recompence whereof they ordered, that none of these beasts should be killed, but be honoured with religious care and worship. Ensignes were then denised for readines to direct souldiers in particular, whither to refort in time of fight. " Czas practife agreeth bereto : " Cziar de he telling of his owne fouldiers disorder hath thus : Whattoeuer part they came into bell gall.lib.m by chance, and to what Enfigne focuer, there they staied, least in seeking their

u Vegenhb. 2 Ownethey might happily lose the time of fight. And Vegetius enlargeth the cause 647. 23.

x Leocop 6.

\$5 . 19 10

rop. lib. 7.

embattailing of an Armie was quickly brought in route, and confusion, to avoide this inconvenience, divided the Cohorts into Companies, and appointed an Enfigne of enery Company. So that in the Entigne was written, of what Cohort and of what number in the Cohort the Companie was. Which the fouldier feeing, or reading could not eftray from their Companions, though the tumult were neuer fo great. \* Leo alfo maketh this the ofe of the Enligne : Wee command allo, faith he, that the heads of the Enfignes of every Company or Band be of one colour, and that the tilke of euery Turme, or Drunge, haue a colour by it selfe. And to the end that every Companie may with ease know their owne Ensigne. other markes and tokens are to be added to the heads of the Enfignes, that according to Turmes, and Drunges, and Companies, they may be knowne. But in any case, let the Ensignes of euery Turmarchy be different one from an other, & cleare to be difeerned, that the fouldiers may know them even at a farre distance. His w. caning, as Itakeit, is that every great body or regiment (bould beare in their Ensignes ate erall colour, and that the Companies of that body (hould likewife hold themselves to in fame colour in their Enlignes : So not withflanding that ( as the ve is at this day ) the c. niignes of every Company should have a severall marke to bee knowne by , besides the colour in generall. For fo both the Regiment may be quickly difcerned, and one Company with facilitieb diffinguished from another. What the forme of the Ensigne was. we may out of the former place of Diodorus fee : The Ægyptians, faith he, counterfea. ting the shape of those Beafts, which they worshippe, fastened the Portract to the end of long staues. Y Xenophon testisses the like of the Standard of Cyrus. y Xenoph.Cy-Cyrus (faith he) commanded his army to cast their eyes vpon the Standard, and to follow it with equall pace, and in order. The Standard was a golden Egle firetcht out voon the end of a long staffe. Which Standard is at this day the Stan. dard of the Kings of Persia. The Ensigne was nothing else, but the figure of some beast advanced high upon the end of a long staffe. As of an Egle, of a Wolfe, of a Horse, and fuch like; and sometimes they added peeces of coloured filke fastned under these images to make a greater difference betwixt the Enfignes. Whether our Enfignes at this day, made of many ells of Tuffaty, or the ancient Enfignes of the Græcians (Imay alfo adde of the Romans, for they observed the same forme) are the vetter for vee, I will not now diffuse. I may not with flanding freely (a), that the fronger reason weighth for the Ancient. Fer besides the authoritie of such excellent wits as they were and so exaussite in their inventions, the reason of the lightnes is to be preferred: Besides the winde hath no such force over them, and they neither hinder the Souldiers, that stand next by entangling, nor by flapping in their faces, nor take away the light of such things as are to be observed and regarded in the field. For the matter whereof the Enligne was made, ' fee lustus Lipsius in his Commentaries to Polybius. As for the armour of the Enfigne-bearer (effecially the Enfigne-bearer of the armed ) Itake it (for I have no an.

thoruse therein ) that he had the fame desenfine Armour that the Souldier which fought

ander the Enligne had (excepting the Target) both to affure himselfe from the flying

weapons of the light armed, and from the pike and (word of the armed, in case the bat-

taile were entred and pierced as farre as the Enfigne. For it was no reason, he should

carry a Target, left both his hands should be bound, the right with the Ensigne, the left

with the Target; and fo he have no wfe of either against the enemy. And in the left

band I would give bim a fleare, or wellin, (not a pike, which cannot be weilded with one hand) for his owne defence, and to offend the enemy. Which weapon, I have read En-

Dulog. s.

bol n of the Armie : who therefore have the front, that they may make speedier way into be enemies battell? 7 A Reare-commander Was the same that a Leutenant is with vs. He commandeth the Souldiers in the Reare, no leffe then the Syntagmatarch in the front, and his place in the Reare. What the duty of a Reare-commander was, I have shewed of " Cyrus words in Xenophon. And " Ælian afterwards fetteth it downe most m Xenoph. mainly. He was armed, as the rest of the armed of the Syntagma, namely with Pike, and Cyronib.6. get , and with such other armes , as I have described in my notes upon the second a polleacas.

ptelbefore. For what (bould that Rable of wnarmed (being 4. in enery Syntagma, and

the whole Phalange 256.) doe in the front in the time of fight , but onely pefter the

fignes of ancient time did beare. What the Enlignes place was, whether in front, or in the middest of the Battaile, I see it controverted. Patricius absolutely affirmeth, that f Paric. Parall, she Enlignes were placed in the middeft of the front, and had 8 files on the right, and privalibies. Sonthe left, to the end they might be seene, and followed by all. That Ensianes were cans. first invented to be a marke of scuerall bodies military in an Army, I have before sbewed. But it followeth not thereof , that they were placed in the front in time of fight. For being an the middle, they no leffe gave notice, what the body was, than in the front. The reason of following is of leffe force; Inafmuch as the Souldier well knoweth whom to follow. shough he had no Entigue at all, the Commander alwaies with his motion giving him diection, when to advance forward, when to turne his face to the right, or left hand when to countermarch, when to double, and when to vie all other motions military. And be Commanders were therefore called Leaders, because they went on before, and the Souldiers followed after. So that the Enligne, inregard of following, neede not to be t in the front. E Tetin exercifing the troupes, and in marches, I finde, that the Enfigne g Leo. cap. 7. pas in the front, together with the Captaine, Crier, Trumpeter, and Guide. But \$53. & cap.14 take the reason to be, because being in the middest, and having neither file, nor ranke with be rest, they might happily bring a confusion, and be a hinderance to the changes, and diers figures of the Battaile. When the time of fight was the Enfigne retired to bis place, but is to the middeft. For fo h Leo interpretesh himselfe in his precept of closing files: h Leocop.7. which must be done, faith he, not onely by File-leaders in front, Commanders of five, and \$ 33. ringers up in the Reare, but in the middest alfo, where the Enligne flandeth. And rather agree to Leo herein, because I see, it was the manner of the Romans also, to ace their Enlignes in the middest of their Maniples. From whence came the appel- i Lipfus ad Lions of Antelignani, Souldiers that flood before the Enfignes, and Poftlignani, that Polyb. lib. 4. med behinde. Besides the Ensigne being in the front, the Ensigne-bearer may some a clap, who falling, the Enfigne goeth to ground, and is in danger of loofing, which as the greatest disgrace among the Romans, that might befall. Lastly, & Elian him- k poster c.20. Ife in plaine words placeth the Cornet of horse farre from the front. For peaking of e ordinarie Horse-troupe, he saith it is to consist of 64 horse, the first ranke of 15 Fre, the 2 of 13, the 2 of 11, the 4 of 9; descending Still, and diminishing 2 horse in cry ranke, till you come to one. He addeth; he shall carry the Cornet, that standeth the second ranke next the ranke-Commander on the left hand: which ranke is e fecond ranke, himfelfe declareth, making the ranke of 15 the first, the 2 the 12; hich is the 7th from the front, and next the reare but one. If the Cornet have no place front, why should the Ensigne, considering both ferme to one we, and the reasons of eing, and following are equall to both? And albeit 1 Suidas place the Enfigne, the 1 Suidas in rier, the Trompet, and Sargeant, before the Battaile, the Lieutenant in the reare, is not withft inding to be understood, of the times of marching, or of exercise, which I

8 A Trumpet ]

a Suidas in

8 A Trumpet. ] The invention of the Trumpet is attributed to Tirrhenus Hercules sonne. But the different wie of these officers is worth the noting out of "Suidas : The Crier, faith he, ferueth to deliuer directions by voice, the Enfiene by fignall, when notic taketh away the hearing of the voice: the Trumpet by found, when thorough thicknes of dust a signall cannot be discerned: The Sargeans to bring such things, and despatch such messages, as his Syntagmatarch commands. So that thefe officers were held all necessary for a Company, the one supplying the defect of the other, and feruing for ve when the other failed. The Trumpet then was to be Wed according to Suidas, when neither the Crier, nor Enfigne could doe feruice. With the Trumpet was the fignall given for the Campe to remove, for the Campe to lodge. By the Trumpet the Souldiers were taught their time to fight, their time to retreate. The Trumpet fet and discharged the watch. From the Trumpet came the measure of the Marche, and the quicknes, and flownes of Pace. In briefe, the Trumpet did all the offices, that the Dromme doth with vs at this day. Whether the Trumpet or Dromme. are of most vie in the field, I may not now dispute. Onely I will fay that the Gracians and Romans the most expert and indicious Souldiers, that ever were, held them felues to the Trumpet, and never wfed the Dromme. The Dromme was first invented by b Polyenth 1. Bacchus, who, as b Polyenus reporteth, fighting against the Indians, in stead of Trumin Baccho \$ .. pets, gane the fignall of Battaile with Cymballs and Drommes. From him it came Corrientibes, to the Indians, who wfed it altogether, as Curtius noteth in the battell betwirt King Alexander the Great, and Porus. The Dromme of Parthians is described by d Plutarch in the life of Craffus; and by Appian. I And Leo faith, the Saracens, e App. in Par- who invaded Christendome, and infected the Turkes with their supersition, ordered their fights by the Dromme. From this Easterne Asiaticall people it was brought into Europe; and now the generall custome is among stall European Nations, that the foote f Leo cap. 18. base Drommes in the field the horse Trumpets. And yet for the Trumpet. I can Plutatch, in not fay, that all the Gracians held themselves precisely onto it. 8 Plutarch much commendeth the Lacedemonian manner of toyning with the enemy, and writeth it is in this fort: When the King hath offered the Goate ( that was the Lacedemonian facrifice, when they were to give battaile) hee straight commands all the Army to crowne their heads, and the Flutes to found the measure of h Castor: And himselfe with all beginneth the ' Paan; (the fong they yied when they were to charge) and Pollur. lib 4. advanceth first against the enemy. So that it is a braue and no lesse fearefull thing Cap. 10 5 2. to behold them pacing according to the measure of the Flute; neither dissoluting their order, nor thewing any aftonishment of minde, but mildely, and joyfully approching the danger of conflict, dividing out their Marche to the found of the instrument. For it is not likely, that men so demeaning themselves, can be transported with feare, or choler. Nay rather they must needes have a settled minde full of hope, and affurance, as if God were present on their side: thus Plutarch. Out of whose words it is cleare, that the Lacedemonians weed no Trumpets in fight, but Flutes, and made them their instruments to daunce, as it were, the measures of warre k Thank lib. by. For they wied an easie, and slow pace, framed & to the cadence of the found; 1 Poyen ab. which may well be resembled to the solemne measure, in dancing. Athenœus rehearin Prode, S. 1. feth out of Herodotus, that the Lydians ofed the like. But he addeth; that the Cretans madechoice of the Harpe for their instrument of warre; as though it had beene peculiar tothit nation. " Paulanias testifieth the like of the Lacedemonians. " Polybius 20eth not fo farre, but affirmeth onely that the Cretans, and Lacedemonians in fread of Lacourer 193. Trumpets brought in Flutes, and measures into the warre. And if it were so that the

Lacedemonians vsed Harpes, it is like, they tooke them from the Cretans. For I finde

in ? Plutarch, that Lyoungus brought many of his lawes from Crete, and had grest p Plutarchia familiarity with Thales the Cretan, whom he alfo fent to Lacedemon, to make an over-Lycurgo. ture for the establishing of his lawes, that were then newly finished. Let & Diodorus a Diodosio. Siculus reporteth, that the Lacodemonians vfed alfo Trumpets in their Battules. He ib. 15. 475. writing of a fight that was bet vivit the Thebans, and Lucedemonians under the leading of Agelilans, when these words in effect : There was astrong fight between them a long time, and at first Agesilaus had the better; but afterward, when the Thebans illuced out of the City at all hands, Azefilaus feeing the multitude, caused the Trumper to found a retreat. The figne of retreat here, was given by Trumpet, and it leemeth the Lacedemonians had the we both of Trumpet, and Flute. Tof the relyen liber Flute in pacing toward the enemy to some battaile; of the Trumpet in all other mil. tary in Procle Se.s. fignalls, Juch (Ihaue before notedit) as the rest of the Gracians gaue by Trumpet. Fan an in La.
The place of the Trumpet in the time of the Rutsilam on ithin the Dhalange buthe. Comain 193. The place of the Trumpet in the sime of the Battaile was nithin the Phalange by the Enfigne. Thucydides placeth the Flutes of the Lacedemonians n ithin the battatle, ( Thucyd. lb. where they can finde no roome, unlesse they stand by the Entignes. And albeit Dolie \$ 393.

nus faith, the Flute led the Army, and went besere, yet that it to be understood in the in Proche \$ 1. marche. For incase of a Marche, or exercise, "Leo also giu. the Trumpet place by a Leocopy the Captaine in front. When the fight commetin, he retireth himselfe to his place in the 655. Battaile with the reft.

9 A Sergeant. The word Hyperetes signifieth a Minister, (which is all one with the French word Screeant, as appeareth by the interpretation of our Law it felfe, wherein the Sergeants, next degree to lustices, are called servientes ad legem. I reterne therefore the name of Sergeant, because it is familiar amongst souldiers. And a Sergeant hath the Jame office in our Warre that Hypenetes had among st the Gracians. What his duty and feruice should be, is declared out of \* Suidas. There were of x Suidas in thele officers, as well among the horle, as the foste, as appeareth in Y Xenophon. The Ecocos. estimation and worth of their places is expressed by the same Xenophon. \* Cyrus held Cyrophib.7. the Sergeants in warre, faith be, worthy of no leffe honour, than a meffengers, 191. A. and Embassadors in peace. He conceived that they ought to be trusty, skilfull in Cyrophib. matter of warre, vaderstanding, quicke, swift, industrious, and voide of seare; be-44.D. fides endued with all qualities requifite in the best fort of men; & that they were 2 Sec Suidas in to accustome themselves to refuse no manner of service, but willingly undergo whatfoeuer is laid vpon them by their Commanders. Thefe Seigeants attended their Commanders in Marches, and other times, (aue onely when Battaile was to be soyned, and alwaies exteded his command. During the fight, they retired to some place. where they might bee ready at call; for (as I faid before) they could have no place

10 A Crier. Concerning the office of a Crier, Suidas hath taught we, that he was to deliner the Commanders pleasure by voice. Leo calleth him Mandator, from the b Leo cap. 4. Latine word, because he signified to the souldiers, Mandata, the commandments of the \$16. Captaine. Inexcreise he stood at the head of the Troupe, taking from the Commander the words of direction, and making, as it were proclamation of them to the Souldiers; and ferued often, when neither Trumpet, nor fignall might be given; be was other wife also of great wife. For in all busines whi h required distinct signification of any sudden alteration in the Armie, the Crier had his part alone. 'Xenophon telleth in the Gra- c Xenoph de cians returne out of Persia, that Clearchus their Generall led them not against the exped. Cyri enemy, both because their courages began to fall, and also because they were all the day fasting, and it grew somewhat late. But yet hee turned not out of the way, left he might feeme to flie; but holding on right forward, he came with the

in front.

dienojos h lib

Arollo, It.l. Polius, bb. 1. cap. 1 . 5. ; ;.

Gare fee Int.

thicis 143.

Lycurgo.

vantgard, to the next Villages by fun-fet, & there quartered; The very timber of the houses of some of those Villages was broken downe, and carried away by those of the Kings armie. The first therefore lodged themselves reasonably, the last being be-nighted enery man tooke vp his lodging as it fell out, and made a great noife, calling one after an other, fo that the enemie heard it. Whereby it came to passe, that the next of them fled out of their tents. This appeared the next day, for neither was there carriage beatt, nor Campe, nor smoake neere athandro be seene. The King also was terrified as it should seeme, with the acceffe of the Armie. Which he declared by the next daies worke. Yet in the procelle of night a feare feafed the Gracians themselves; and the tumult, and hurleburly was such, as is wonr, when men are possessed with feare. Clearchus in this distresse commanded Tolmides the Elean , whom beethen had with him, the best Crier of rhofe times ) after filence, to make proclamation, that the Commanders figuified generally, that who focuer could bring foorth the Author of this tumule a About a 176 should have a a talent of filter for his paines. After this proclamation made by pounds flating the Grier the Souldiers perceived, that their feare was vaine, and that the Comcap. 6.430.437, manders were in fafety: Hetherto Xenophen. By which narration may appeare, that the Crier performed that, which neither I rumpet nor other fignali could doe, the terror rifing in the night ( which is the time of confusion and disorder) and neither could the Trumpet give any certaine found to remedy the perill, nor any other figuali be differned by reason of the darknesses and this service was done by the Crier amongs his owne folke. Hu (ervice against the enemie is declared in the fast of D Cloorvius the Athenian hillor. Girc. Crier who after the fight, betwirt Thrasybulus and the 30. Treams ( wherein Criticas and Hippomachus were flaine ) with a proclamation to the Citizens, reconciled them to Thraighulus, and was cause that the Tyrants were deposed, and had their authoritie abrogated by the people. The like feruice was done by a Criet in the behalfe of the Gracians against the Persians , about the time of the battaile of Platax. The storie is this : e Diodor. Sic: e When the Gracians under the conduct of Leotychides, the Lacedemonian, and Xanthippus the Athenian, had gathered affecte of 250. Gallies together to the end to deliuer the llanders, and the Citties of the Continent of Affa the leffe, out of the scruitude of the Persians, they failed out of Delos. The Fersians then remained at Samos. But hearing of the approch of the Gracians, they left Samos, and put ouer to Mysale a City of Ionia. And because they perceived their shippes visit for fight, they drew them on land, and fortified the place, where they landed, with a wodden wall, and a deepe trench. Neuertheleffe they fent for foote forces, from Sardes, and other the next Cities, and affembled to the number of a 100000 men: And made prouision for all things necessarie for warre, the rather, because they suspected the Ionians would revolt. Leotychides having pur his fleete in order, failed towards the Barbarians, that were in Mycale, and dispatched away before a shippe, wherein was a Crier, who had the shrillest voice in all the Armie. Him he commanded to faile vp close to the enemie, and to proclaime aloude, that the Grecians having ouercome the Persians at Platae, were now come thither to deliuer and fet free the Grecian Citties of Asia. This was done by Leotychides to the end to diffeuer the Asian Crecians from the Barbarians, and to raise a tumult in the enemies Campe. Which also cameto passe. What fernice could bee of more imporsance, then to fet a dinifion betwixt the enemies ? It was done by the voice of a Crier.

More examples I could alledge, but thefe may suffice. The Criers place was alwais to at-

send the Commander in the head of the Troupes , unleffe in the time of fight; at which

time his voice could not be heard but gave place to the noise of Trum; ets and classing of

II A Tetragonall forme ] That is of four equall fides, or four esquare; But we must understand (which Elian after teacheth) that there are two kinds of Tetragonall, or fquare bodies military, one in number, the other in figure. In number, when the front, and flancke of the body have either of them as many Souldiers, as other; as the Syntagma bath 16. in front, and 16. in flancke. In figure, when the number of the front is erester, then the number of the flancke, and yet front and flancke fireschont an equal length of ground; as in the squares of horse, whereof Elian Speak to hereafter. This Elian cap. 18. last iquare is at this day called a iquare of ground , because the space of ground , which contesneth the length of the front, firetobeth out infly as far, as the space of ground, which conteinesh the deepth of the flincke. It is caused by the difference of distance, which is betwist the Souldiers in front, and betwist the Souldiers in flancke. In front, being closed to fight, the distance betwirt Souldier, and Souldier, is but a cubite; that is a foote, and a halfe. The distance betwixt souldier, and souldier, in stancke is two cubits, or three foote, which proportion will give no more, then halfe fo many men in flancke, as in front, and get maintaine the truenesse and enennesse of the sides of the figure; that is the length of the line, which measureth the front, and flancke, shall be all one.

12 A Pentecossarchie The word is a command of 500, and that was sometimes the number. In the Macedonian Phalange, it comprehendeth a 512 men. The cause of difference is the difference betwist the file of the Macedonians, and the file of the ancient Gracians (wheref I have foken before ) the odde 12 men comming in by the fifth doubling of 16. And the number being fo neere 500, though fornewhat about, the name of Penrecoliarchie is still reteined , because it was then in vie, and no other more fit could be found.

13 A Chiliarchie ] The command of 1000 men according to the name; Elian ginethit a 1024, from the doubling of 512. The Tribunes of the Roman Legions are by the Greeke Historians tearmed Chiliarchs; yet is there a great difference ; for the Chiliarchs have no more command, then over their Chiliarchy confiling of 1000 men, and sometimes of more, as here in Elian of 1024. But every Tribune had in his turne the command of the whole Legion. And against bere being 12 Tribunes, to every Legion ( which at first hadinst 3000, afterward 4000, then \$ 5000, and in the time of b Vegeti- : Plurach in us 6000 men) how should a Tribune be called a Chiliarch and be a Leader of a thousand, Romulo. there being in the legion but 6000 men at the moft, and yet 12 Tribunes; fo that every suchs. enecould not have, above 500 for his command; and in Polybius time, (the legion be- e Veges lib.z. ing but 4200) not about 300 and odde. But the Roman manner of warre and ordering cap 2. of troupes, differed much from the Gracians; and the Gracians in tearming a Tribune a Chiliarch, tooke the next word, and most significant amongest them to expresse the charge of a Tribune. Our Coronells, for their command, of a Regiment come neerer to the Gracian Chiliarchs; yet ours differ inthat they have Companies in their owner Regiments, which the Gracian Chiliarchs had not, and where Q. Curtius faith, that & Quint, Curt the Chiliarchy was forft instituted at Babylon by Alexander, as a reward for service, 115. 5. 166. it seemeth to be otherwise. For as I finde this in no other Author, so finde I, that Chiliarchies were long before Alexanders time. . Xenophon reporteth, that Cyrus to e Xenoph. Cygiue encourage ment to his fouldiers to be valiant, promifed to the Taxiarchs tomake them to the 1.43. Che encourage ment to a spoulater stope valuant. promyea wine a marches to make them (Xemph.Cy. Chiltarchs, to the Decharchs to make them Taxiarchs, to the Decharchs to make them (Xemph.Cy. Lochagi, to the Pempadarch's so make them Decarch's; And that Cytus made too. 16,488 B. Chryfanthas a Chiliarch of borfe in regard of his worth, and former dneffe in fernice. & Kooph Cytus made to the company of the And afterward he calleth & Phranuchus, and Afiadatas, Chiliarchs of horse, and Ar-108. C. D. tabafus and Arragerfas Chiliarchs of foote: h Polyenus witnesseth that in Iphicra- h Polyenlib.; tes his time the Athenians had Chiliarchs, and Pentecosiarchs, fo that the institution in Iphicase

b Xeneph lib. 2. 474.

armor.

of Chiliarchs could not be referred to Alexanders being at Babylon, confidering it was in ve before; and a Arman reporting the same flory , faith not , that Alexander fo ft a Art ar. lib.z. brought up Chiharchies there, but that he orderned two Lochi in cuery horse troupe where to that day there had beene none ; and two Lochagi to command them. Indeed b Died Si ul. Diodorus Sicuius, writes thus concerning a Chiliarch. Antipater, faith he, lying vpon his death-bed declared Polyperchon Protector of the Kings (being the eldett of those, that had served Alexander in his warres, and much honoured of the Macedonians ) and his owne fonne Caffander the Chillarch, and fecond manin authority. The place and inflitution of the Chiliarch first grew to name and honor vnder the Persian Kings. So writes Diodorus of this Chiliarchy which Antipater beflowed upon his fonne Castander. Which notwithstanding feemes much to differ from the common Chiliarchy of the Phalange, wher of Curtius fleaks. For Diodorus faith. he was next to Polyperchon in authority. Where in the Phalange there were many Commanders, namely, the Merarchs, the Phalangarchs &c. abone the Chiliarchs. Adde that he lath, the institution of this Chiliarch came from the Persian Kings, when the Chiliarchs of the Phalange had their beginning from the Gracians, and were ordi-

narie in Phalanges, as I have shewed. Lastly where Diodorus reporteth, that it had the increase and advancement of honour from the Persian Knes, he (heweth plainely, it was not Alexanders invention. And the same Diodorus speaking of the death of Ochus King of Persia telleth, that he was poisoned by Bagoas his Chiliarch in the time of the reigne of Philip, Alexanders father. This Chiliarch then I take to be the same, that the Generall of an ormee is with us. And I can hardly be perswaded, that Antipater wouldbequeath a leffe place to his sonne Caffinder.

14 A Merarchy The command of a part or halfe; for a Phalangarchy conlifteth of two Merarchies. So that a Merarchy is halfethe Phalangarchy, and conteineth, 2048 men. This part is also called Telos, of which I have spoken in my notes to the seventh c Thucyd.lib.t. Chapter. And yet the word Telos is not alone weed inbodies of foote. For c Thucydides Beaking of the fight by fea betwixt the Corcyr wans, and Corinthians, telleth that the Corcyr ans saue the right wing to ten Athenian (hippes, and having of their owne a 100 and 10 (hippes, divided them into three Tele, every of which was commanded by one of their Generalls: fo that Telos there lionifieth not a cert aine number of lhips, but a part of their flest divided into 2:00 the Comunders of the Corcyreans are call d Strategoi.

15 A Phalangarchie The command of a fingle Phalange. Of this kinde were Arrandible the & Phalanges in Alexanders armie ( as Itake it ) which were led by Canos, by Per-16. E. S. 31. E. diccas, by Craterus, by Amyntas, by Ptolomy, by Meleager, and other, as Arrian hath; Before Philip and Alexander eathered thole forces together, wherewith Perfia was fundued, the armies were of (maller number among st the Gracians. Neither was it in many Cities might to raise 4096 men; which go to the Phalang archy of Ælian: If any dia they might well call it an armie (Strategia, and the Commander Strategos) and the name of Strategos, or Generall was visually given to him, that commanded in chiefe over an armie ( though (mall) fent out by any Citie to warre. So then, as the Generall was called Strategos, a Phalangarchy might also becalled Strategia. I have before noted, that the fections of the Phalinge are limited and laid out by the Phalangarchies. And where there are 3 lections in a Phalange, the middle lection is in the midfl of the 4 Phalangarchies , 2 Phalangarchies lying on the one fide , and 2 on the other. The 2 other fections are one betwixt the 2 Phalangarchiesof the right wing the other betwixt the two Phalangarchies of the left wing, for betwist enery Phalangarchie was a space or fection.

16 A Diphalangarchie The command of two Phalangarchies ; this was one of the mings. Alian grueth it no Commander ordinary, neither doe Iremember, that I

have read Diphalangerchs of Diphalangurchia as Phalangarchia of Phalangarchia, Tetrorche of Locarchia. Ver wis there one, alwaies that commanded the winge, oppennedtothes place estimand and ry So + Philip, as the bar the of Cherone of where he a Dod. Sicul. ouerthrew the power of the Athanians, and Thebans, and their Ales) tooks the one wing to hanfole, and gave the command of the other to Alexander his some being then but young. And Alexander at Granicus commanded hunfelfe therithe wing, and ap. 5 Avendon. busyonng. And Alexander as Granicus communeration in jedespersitet wing, and appearance in pointed varmeniors shrings. Som the business against Darius at 180s in Cilicia, e Aginalda.

17 Meros | Meros is a parthy duisson, comming of the curbe, metro to duisse. A roun list, and achefore A mornible on heart and a chefore A mornible on the control of the curbe, metro to duisse. And as before, Amerarchie was halfe a Phalangarchie, lo here Metos is halfe the fourfold Phalange. Each then fignificth halfe, but to diffinguish them the one is called a Me. rarchie, that is a Commande of bafe, the other Meros, that is balfe : A difinition fulficient to know the one from the other. Two of thefe Meros make the Phalange contesning 16384 men. And these are the bod es militarie, which Alian in this Chapter describeth, and which were in vie amongst the Maccdonians. The other Gracians view other boars in the rainties. The Lucedemonius divided their whole city, into fixe a section decima hodies, herje and feote; we your of which was called More, or Moins. Their Cenerall os. A. wes one of their Kings, for they had alwaies two. Euery Moira, had a Polemarch (not much differing from our Cor wells) foure Lochagie, eight Pentecosteres, and fixteene Enemocarcas. What the number of the Moira was, is uncertaine, by reason of the secrecie the Lacedemonians ofed in their government, as f Thucydides faith. Plutarch ( Thucyd lb. a reporteth, that Uphorus the lifterian, gineth 500 mento the Moira, Califthenes 700. 39 Polypius and offers 900. Diodorus Siculus, agreeth with Ephorus, and alloweth Pelopida. but 500 to the Moira. And Xenophon numbreth the Moira of the Lacedemo- h Dood Sicul. Dians, which Iphicrates, defeated hard by Corinth, to have been about 600 men. & See i Xenophal. the scholiastes, of Thucydides, for the exact number of these bodies. The Atheni- Grac. lib. 4. ans had their Chiliarchs, Pentecofiarchs, Taxiarchs, and Lochagie, as I have faid \$18.C. before. And with them were the Lochagi laft, where with the Lacedemonianseher Thuryd. ho, 5, before. Ana must been were the Locustering. The Lockos was not alike, as I have like. 392 were next the Polemarchs, but the number of the Lockos was not alike, as I have like. 392 leven his, wifeshewed before. Cyrus in "Xenophon hash these orders militarie, Myriarchs Comit of therea. manders of ten bouland, Chiliarchs of a thouland, Taxiarchs of a rundred , Lochagi s 10 of emenite foure, Decariarches called fometime Dodecadarchs of 12, Pempedarchs on Xenoston of fire, which are a foculted Bexadarchs. " Vibicius differeth not much from Elian; . . . . . face saciy in the number of the tile, and the Officers of the file. For where Elian bath a typologist fixteene to a file, Vrbicius hath but ten : and Vrbicius alloweth but two Commanders Same, to the file, the File-lender, and the Bringer-vp Ælian foure; the foure Enomorarchs. For the number of the Officere, in the Phalange they agree. And yet the names are not all ow. Elian beginneth wish a Dilochite commanding two files, thirtiet wo men, Vrbicius milbihe Lochagos, who likewife commandeth two files of his and fine men more, namely 25 men. The next in Aban is a Tetrarch over fixtie-fouremen, in Vrbicius 4 Pentecontarch ouer fiftie men. Vibicius bathnext a Taxiarch, a Syntagmatarch, a Pentecofiarch, & Chiliarch, & Merarch, & Phalangarch: And Cubath Elian. The nest in Æ ian is a Dipitalangarch, Commander of 8192 men; Vrbicius termeth him a Myriarch that is the Leader of ten thou (and men. The Tetraphalangarchy is last in both. But Vrbicius afigneth no more, then 16 thoufand to bis Phalange, Ehan 16 thousend 284. Iulius Pollax thus dinideth bis bodids, a Myriarchie, a Chiliarchie, a Taxiarchie, a Ficcatontarchie, and a Lochagie. What a proportion Leo makes, is to be seene in the fourth Chapter of his Tacticks. Because, he bathamixture of the Roman and Greeke Orders, I remit the Reservo the booke.

Dilochites 512. Tetrarchs 256. Taxiarchs 128. So then Elian hath in his Phalange Syntagmatarchs of armed ( befides the two Diphalan - Pentecofiarchs Chiliarchs garchs ) 1020. Officers. Merarchs Phalanzarchs

Thane fet downe the figures of all the bodies described by Ælian as farre, as the Phalangarchy. The rest would have beene troublesome to infert as requiring more paper. then would fland with any reasonable proportion; neither are they greatly need full. For two Phalangarchies toyned in an even front , and in a convenient diftance, will figure out a Diphalange; foure in an euen front with a like distance will make the fourefold Phalange. So that thereby the forme of it will appeare.

> The precedence, and dionitie of place in the offices of the Phalange.

> > CHAR. X.

"He best of the *Phalange* Commanders is placed on the right wing , the second on the left wing, the third in valour in the right hand next the fecond Philange toward the middle section. The fourth on the left hand next the first Phalange toward the middle section likewise. So the first and sourth Phalange have Commanders of the first, and fourth worth: The second and third Phalance have Commanders of the second and third worth. Now wee will shew by demonstration, that the first, and fourth worth, and valor, are equall to the second, and third: So that the Commanders in each wing are of valor alike.

\* The Leaders also of the severall Merarchies are thus disposed. The first hath his place in the head of the first Phalisses on the left hand: The second on the right hand of the second Phalange: The third on the left hand of the third Phalange: The fourth on the right hand of the fourth Phalange. Also the Leaders of files in every I etrarely are fo placed, that the Leader of the first file hath preheminence in valor and place; the Leader of the fourth file standeth next him : Then the Leader of the third file, and the Leader of the second file laft. For then are Dilechies of equall valor when the first Delechie hath the first, and fourth Leaders, the second Dilochy the second, and the third Leaders in valor and reputation. For it appeareth in the Mathematicks, that, when there are Analogies, or answerable proportions of foure megnitudes propounded, that which arifeth of the first, and fourth, will countervaile that, which arifeth of the second, and third magnitude. And because there are soure Tetrarches in enery Syntagma, wee may give the Leaders of the Tetrarchies place according to the same proportion, as to place the Tetrarch of the first Letrarchy on the right hand, gining him the first place of worth; on his left hand the Tetrarch of the fourth Tetrarchy in the fourth place of worth. Then agains next him the Terrarch of the third Testarchy in the third place of worth, and on his left hand the Tetrarch of the second Tetrarchy in the second place of worth. In tike manner are the greater commands also to be proportioned.

Notes.

He former Chapter was of the Officers and of the bodies of the Phalange; this is of the place of enery one, according to his worth. And first wee are to note, that all the 2 Commanders were placed in front of those, that they commanded; to the 1 Xcnoph. end they might direct, and lead them as occasion should require. For b Xeno. Cyrop. lib. 3. phon faith of Cyrus army, the Decadarchs, or file Leaders, had care of the s xnoph. files, the Lochagie of he Decedarchs, the Taxiarches of the Lochagie, the Chillarchs Cyronibs. of the Taxiarchs, the Myriarchs of the Chiliarchs : So in the Phalange of Elian the 203. A. file Leader had the command of his file, the Dilochites of the file Leaders the Tetrarchs of the Dilochites, the Taxiarchs of the Tetrarchs, and fo the reft, till you come to the Generall, who cared for all, directed all, and under whom all the Commanders were. I be G nerall bath beene placed sometimes in the right winge, sometimes in the middest of the Phalange. Vegetius faith, that the Generall of the Armie is accustomed e Vegetius to be in the right winge betwixt the horse, and the foote. Hee addeth, this is the lib. 3.cap. 18. place, which gouerneth the whole battaile, from whence the falving out is most direct, and free. Therefore he standeth betwixt both, that hee might both gouerne horse, and foote with counsell, and with authority exhort them to fight. d Cyrus in his battaile against Crefus, took his place in the right wing, betwixt the right d Xenoph. hand point of the battaile, and of the horse, that were ranged in the wing; Alexander Cyrop. lib. 7. the great, in his battailes tooke the same place; "Timoleon in his fight against the Car- e Planechia thaginians placed himfelfe in the middest of the battaile. Diodorus Siculus, faith, f Diod. Sicult that, it is the manner of the Scythians, that the King should sland in the middest of the lib. 10, 22, Phalange. The like doth & Arrian affirme of the Persians, and faith, that Darius had & Arrian hab. that place. h Leo also giveth the middest of the battaile to the Generall. And there h Leo cap. 4. placeth the battaile ouer which he would have him to command.

I The best of the Phalangarchs ] This ordering of the Phalangarchs the best & cap. 12. 66. on the right hand wing, the second on the left, the third next him in the left wing on his right hand toward the middle fection: The fourth in the right wing on the left hand of the first toward the middle section thus, 2 3 4 1 commeth out of a Geometrical proportion, which troportion giveth law to the ordering of the rest of the Commanders. The rule is thu: 4. Magnitudes which equally exceede the one the other being compared together that which arifeth of the first, and fourth, is equal to that, which arifeth of the second, and third. As 2. 8. 14. 20. each exceedeth the other, 6. The addition of 2.10 20. begetteth an equall number to 8, and 14. added together. So is it in all other numbers, that have the same equalitie of excesse one aboue an other. Out of this rule of proportion, Elian derineth the gining equalitie of strength in the Leaders to enery bodie in the Phalange. For Leaders and Commanders are (or ought at leaft to bee) chosen by worth, and valour : and the preferments of the feild have beene held the due reward of vertue. Say then the Phalangarchs are preferred to their places according to their worth, and that the first Phalangarch is most worthy, the second next bin, the third next, the fourth least deserving of the fourc. If you should place them, as their worth is in a rancke succe sucly one after another, the best before the first Phalangarchie in the right wing, the fecond before the next Phalangarchie in the same wing, and leave the other two Phalangarch's to command the left wing, the disproportion would be great; the third and fourth not being able to match the worth of the first, and second.

of Elian.

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But if you place the best Phalangarch before the fift Phalangarchie on the right wing, the second before the second Phalangarchie of the left wing, the third Phalangarchie met him before the sint of Phalangarchie on the left wing, toward the middle Section; the fourth of ore the fourth Phalangarchie of the right wing toward the same Section, the valours of the Commaniest, will be equall in best wingers. For as in the number 1.2.3.4 one and 4 make 3, as many, as is made by soyning 2 and 3 together 3,0 the worth of the fourth Phalangarch toyned to the worth of the first will wise as best in true valuation, as the worths of the second and third signed together. In where the Phalangarchie on the left cound and third signed together. In whene the Phalangarchie sindings in the same wing the third; it is to be writers leading the sinding in the same wing the third; it is to be writers shaden the second place the place is displaced the same wing the sum of the same wing the same that the same wing the same the same wing the same the same wing the same that the same wing the same the same wing to the whole Phalangarchie of the whole Phalangarchie of the same of the same of the whole Phalangarchie of the same of the whole Phalangarchie of the same of the same

 $\frac{1}{b}$   $f = \frac{3}{c} g + \frac{4}{d} e = \frac{1}{a}$ 

For the understanding whereof, you are so note, that

- a fignifieth the first Phalangarchie.
- b the fecond Phalangarchie.
- c the third Phalangarchie.
- the fourth Phalangarchie.
- the Section of the right winge.

  I the Section of the left winge.
- she middle Section.
- g the missile section.

  1 the place of the first Phalangarch.
- 2 the place of the second Phalangarch.
- 3 the place of the third Phalangarch.
- 4 the place of the fourth Phalangarch.

The Leaders of the Merarchies ] As the Phalangarchs fo are all the other Commanders of the severall hodies placed by source, and the same observation to be had, of the dignities of the place, that was in the Phalangarchs: and these 4 Metarchies (for Elian sheaketh of no more than 4), must stand thus.

P	M	M	P	P	M	M	P
2	2	3	3	4	4	Ţ	1

P, flandeth for Phalangarchs.
M, for Merarchs.

Robortellus confesseth be finderb these Metarchs so placed in a written booke, and it is the true placing. The signres, he settleth downe out of his owne wit sa he termeth it) early with them no shown of Elians proportion. Patricius likewise semesth to but missenship to how missenship them no show it in the signres he hath set downe, of which not one is right. I will reserve the Keeder to their bookes, admonshing him onely of the missenship. But Elian placeth here but 4 Metarchs; what order shall be for the other source? I have alwaise thought Elian describe in this place, neither could this their of sinde any man, that bath brought light to cleare the doubt. Patricius that purposely discurses to this place of the sind estimates the doubt.

Elian, steaketh of bestowing 4 Merarchs onely, as though the rest were to be throwne away from the Phalange. Robottellus seeking to bestow all 8, bestoweth them indeed, but not according to Elians proportion, which nawitisstanding he would steme to sollow. His figure is this.

The proportion is bis, so I faid, and not Elians. For Elian placed the first Metarch in the right wing; he placeth him in the lest; Elian the second make second Phalangar-Chie, he inthe south; Elian the twint in the lest wing, he in the right; Elian, the fourth in the south of the himse second place and the second second second in the second second second in the second s

In this figure I have observed precisely the place, that Elian gave to the 4 Metarchs. The first standeth on the left hand of the first Phalangarch; the second on the right hand of the fecond Phalangarch; the third on the left hand of the third Phalangarch; the 4th on the right hand of the 4th Phalangarch. The rest I have added, and divided according the placing of the first: So that the number that arifeth of the addition of both wings, is alike, and the proportion held. In all the reft of the bodies, where there is a Command ouer 4, the keeping of the proportion hath no difficulty. So every Phalangarch commandesh over 4 Chiliarchs; every Merarch over 4 Pentecofiarchs; every Chiliarch over 4 Syntagmatarchs; every Pentecosiarch over 4 Taxiarchs; every Syntagmatarch ouer 4 Tetrarchs; enery Taxiarch ouer 4 Dilochites; enery Tretarch ouer 4 files; In all which the Commander, which hath the right, hath the first place, he that hath the point of the left hand, the second place; he that standeth on the right hand next to him, the third place; the last place is his, who standeth next to the Commander of the right point on the left hand. And for the place of the Phalangarchs, and of 4 of the Merarchs, and the file-leaders, and of the Tetrarchs, they are laid out by Elian. The reft appeare by these, and are to be squared by the same rule of proportion, as Elian admonified.

The whole wing.

Merarchi alom. 7 The distances to be observed betweene Souldier and Souldier in opening and foutting the Phalange.

# CHAP. XI.

TE are now to speake of distances both in length, and depth betwixt Souldier, and Souldier, as they stand ordered in Battaile. The distances vary in three forts. For first they are placed in thinner distance for some special causes. And a Souldier fo placed taketh vp 1 4 cubits. But in 2 Denfation or clofing he taketh vp 2 cubits. 3 In Constipation or Shutting, one cubit.

Denfation then, or closing is, when we draw wide distances close together, and by fide-men, and followers (that is both in length and depth) gather vp the bodie of the Phalange: fo notwithstanding that the souldier yet hath-libertie to moue,

and turne about. Constipation, or shutting is when the Phalange by side-men gathereth it selfe vet c'ofer together, then in Denfation; fo that by reason of the nearenessethere is left no Declination, or turning of faces either to the right, or left hand.

The vic of Closing is, when the Generall leadeth the Phalange against the enemy. Of Shutting when he would have it fland fast (and as it were locked up, and ferred)

to receive the charge of the enemy. Seeing then there are 1024 File-leaders in the front of the Phalange, it is plaine that 4 in their ordinary array they take up in length 4096 Cubits 5 (that is ten furlongs, and ninetie fix cubits) In Clofing five furlongs, and forty eight cubits. In Shutting two furlongs, a halfe, and fower and twenty cubits.

#### Notes.

A Fier Souldiers are armed, and distributed into bodies military, the next care is to be had of their Mouing. For as aman, let him be neuer so well proportioned, and firong, if he pace diforderly, and either fet too great firides, or reele here, and there, or fo mince, and tread out his steps, as if his leggs were bound together, groweth hereby deformed, and not onely loseth his comelinesse, but his activitie withall, and possibility to performe anything by frength: So is it of an Armie, that hath either too great distances, or a Cziar de bel, is thronged up, or pefired too close together. " Too much thronging bindeth, as it were, the fouldiers hands, and taketh away the vie of his weapons, as on the other fide o falling Philogemene. one loofe from another, and standing or moving too farreasunder, maketh the Battaile weake, and desiointed, and subject to the enemies entry and easie to be broken. The meane betwiet both was brought inby King Philip, King of Macedonia, who first constituted, and raised the Macedonian Phalange, and invented the distances of opening and closing e Diodor Se. the fame; imitating the ferring of Targets (called Synafpilmos) practifed by the old Heroes at Troy. Out of his discipline fprung the distances mentioned here by Elian:

which are of three forts; The first are large distances of Foure Cubits Which amount to fix foate. For a Cubit conteineth a foote and a ha'fe. This a distance was veed in marching, or elecin solemne pompes and showes. And the fouldier having a pike of " 14 Cubits or 21 long, whereof one halfe lay fore Polyb.lib 17 ward on his fooulder, and the other halfe backward, it was requifite he should have area-Sonable large diffance both in file and ranke, to the end, that in turning this way or that The Rearc

The Goond distance called

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lib. 16. 511. d Polyb.lib 12 Leo cap 17.

The third distance oilled staists *op/* 111 ◁ out. કે œ. called Goving ٤. d distance o file " ئ ordinary & Jose rants i first distance o 12 E is to be

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way, or that way, or mouing out of his place ( for no man in his marche can alwaies held his ranke) he offended not his next neighbours therewith. This diffiance our exercise at the any calleth open order. The next diffance is et

Two Cubits ] Or three foote. The name of it in Greeke is Pycnofis, that is thickning. In Leo it is called Sphinxis, (knitting together) in our moderne exercise Order. And it is, when from the distance of 6 foote, we draw our Phalange both by file, and ranke, so close, that the souldiers stand but 2 foote one from in other every may. This distance is vied, when the Army approcheth neare to the enemy ( and onely commeth not to charge) that it may be ready to (but, and locke it felfe for the charge, which is performed in the last distance of

One Cubit ] A foote and a halfe. This is called Synaspismos, toyning Target to Target. For, as I before shewed, the pikemen of the Macedonians efed also Targets with their pikes, and in charging the enemy closed fo neare in front , that their owne Targets touched one another. This kind of fight the Egiptians veed in Xenophon (which & Xenoph. he calleth locking together of Targets) and by meanes therof had the advantage against Cyrophib.7. the Ferfians. The Parthian horse likewise comming to charge Crassus with their stanes: 178. A. h After they perceived the depth of the locking of Targets, and the fetlednesse, Thucydides, and stediastnes of the Roman Phalange, they retired, and duss not come to hands South, Thuwith them. and Diodorns Siculus writes that Alexander besteging the City of B. Halicarnassus, there was in the City, and in service of Darius one Ephialtes an Athe-h Appian in nian, a min of great valour, and strength of body; He by the permission of Memnon A. 164. D. C. Generall of Darius Armie, determined to make a faly. And taking to him 2000 | Diod. Sicul. mercenarie fouldiers, all chosen men, and giving brands flaming with fire to one lib. 17. 575. halfe, and referuing the reft for fight, he opened the gates, and fell out, throwing fire vpon the engines of battery, which soone caught a mighty flame; And marshalling the rest into a thicke and deepe Phalange, bimselfe led on, and was the first that fell on the Macedonians coming to aide, and to quench the fire. Alexander aduertifed hereof speeded to the medley; & ordered first the Macedonians in front, after them other choice men, for seconds; and in the third place men of extraordinarie account for their proweffe, himfelfe leading them on full ained the enemy, which seemed varefiftible, and sent others to slake, and put out the fire, and to preserue the Engines. The fight was hot, and albeit the Macedonians found meanes to quench the fire, yet had Ephialtes the better in the fight; who both himselfe killed many with his owne hands, and the towers from the walls surnifined with many Catapelts annoyed greenously the Macedonians. In so much that some falling in the place, other-some forsaking their ground by reason of the number of Engine Darts that fell thicke amongst them, Alexander himselfe was reduced to extremitie. Here the old fouldiers of the Macedonians, although otherwise freed from such service in regard of their age, having of a long time followed the warres with King Philip, and gained many a battaile, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reuiled, and taunted them for their cowardice; Then \* ferring themselves close, \* Synaspisanes and ioyning their Targets together, they repressed, and held the enemy short, who now feemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable service of the wse of Targets, and of the Synaspisme of the Micedonians, which was not vsed, but when ther either gave whon, or received the charge of the enemy. And the Targets fo knit together ferued for a wall (as it were) to the whole Phalange, and by them the fouldier

a Polyb. bb

37. 764. A.

c Sec Polyb.

Leoca; . 17.

was defended from the missine weapon of the enemie, and hu body concredence from the peircing of the fwerd. Synalpismos then, or flutting, is t'at distance in the Panlange, which bringeth the londers Target to Louch one an other and is limited by Alian to a cabite (that is a foote and a halfe) betwixt fide-men, and fide-men in the front. What diffience the followers (bouldhane, Elian fetteth not here do ine in plaine words 3 but implies, that they fould hold their a foote field in that be faith the Pinalange in confinacion gathereth the fide-min clofer , then in denfation , but freaketh nothing of followers. . Polybins teachethit more planely; who gaves them three toole diffance from the Leader, both according to the Maccdonian and Roman discipline, and that for the wie of their armes with b Elian c. 14 whom Elian alfo agreeth o afterward. In what manner the Targetiers made their clofings, and bow their Targets were cast from the backe, where they hung, to the left shoulder, I have before noted in the second Chapter, and the refere thinke it needlesse here torepeace. Wow for the ground that a Phalange taketh up in each of thefe orders, Elian form-

eth it in the words following allowing the Phalange.

4 In ordinary aray foure thousand enbits ] The Phalange in open order , saith Elian, takes up 4096 cubits of ground. This is to be under flood in front, or length; for lib. 12.664 C. in depth it hath no more, then 64 cubits; every fouldier ( which are in number, 16 in file ) poffcffing A cubites of ground in his open order 3 A cubit is the part of the arme, which reacheth from the elbow to the middle fingers end, and is as much, as a foote and a helfe. Infront then, there being 1024 File-leaders, we most alest to each of them four ecubits, of ground; to the thousand 4000 cubits, and to the odde twentiefoure 96 cubits. For foure times twentie foure makes 96. which together comes to 4096 cubis, and to fix thousand one hundred fortie foure frote. Ten furlongs and ninty fix cubits ] Where this pace is fquared out by tenne

é Saidas in e Suidasibid.

37.589.

furlangs, wee must understand, that a furlang conteines & foure hundred cubits, and 4096 being divided by 400 the quotient is 10: - that is ten furlowes and 96 cubits, as Elian faith. Which measure of ground the Phalange of Armed taketh in open Order. Of thefe furlowes " fenen and a halfego to amile, by which account the front of the Phalange of armed in open order taketh up one mile, a quarter, and 2 46 cubits, meafuring it by feete it amounts to 6120. In clofing ( which is named Order, and is the next distance ) because the souldier is allowed but 2 cubiss, that is halfe so much, as in open Order, the dimension will not exceede fine furlongs, 48 cubits; that is 2048 cubits in all, which amounts to balfe a mile, balfe a quarter, and 173 cubits, in feete, 2072. In floutting 2 farlones and a halfe, and 2 4 cubits; that is a quarter of a mile and 27 4. cubits.

The arming of the Phalange,

CHAP. XII.

He Phalange is to be armed with Target and Pyke. The best Taget is the Macedenian tweet made " of braffe, and " fomewhat hollow, and having " eight handfolls in Diemeter. The Pyke ought to be + no shorter then 8 cubits ; and the longest no longer, then a man may well vie and wield in handling.

.. Notes.

IN the fecond Chapter of this booke to as handled the diner little of armes, wheal the A Phalange. This fesseth forth the choice, that is to be made for matter and fashion, and

what fife is bift of pike and target. For the other armer of the armed (whereof I fake, in my notes to the second Chapter ) is (no question) to be fitsed to the body of him, that shall bare them. He giveth then to the armed a turget, and a pike, the target the Macedonian target the matter where of was first of braffe. I have shewed that the Macedonian target was of brasse, and that they were called by reason of the bearing such targets Chalcalpides Brazen-targets. I am induced to thinke, that, as Philip borowed many other things in warre from the Lacedomonians, so he borowed this kinde of target from them. For they by the ordinance of Lycurgus, were mionned to have no other matter in their target shen braffe. 2 Xenophon gines areason why shey were made of braffe. For Ly- 2 Xenophon eargus was of opinion, faith be, that such a Target was most fit for warre, because de rep. Laced. it is soone brought to shine, and it gathereth not rust easily, two great commodities in armes. For a best the chiefest considerations befurenesse, and strength, jet is not the beauty to be neglected, which (hining doth principally fet out. Befides that it dazeleth b Plantch in beaut 5 to be neglect to winter winting assorpt merpany fet work. Depart with march ad. Crific. the eye of the enemie, and firikes an amazednesse into his minde. 'Xenophon much ad. Crific. Xenoph in mireth Agefilaus, that he fo armed, and clothed his armie, that they feemed to be Agefilae nothing, but braffe, and nothing, but scarlet. The braffe be feaketh of, were the bra- 659. B. zen sargets of his fouldiers, which couered the most part of the body, and were chiefely the obtect of the eye, without that, that any other weapon was at that time of Braffe. Therefore, as I (aid, I am of opinion that the brazen Target came from the Spartans to the Macedonians. The Brazen-targets Elian would have

Somewhat hollow I if they (bould beare streight out without any bowing, besides that they were wneasie, they would lie kicking out from the body, and not cover it much. The arme or Boulder , that is inserted into the Target, is bowing. And the target somewhat bowing fits it for ease, and lopeth more toward the body to couer it, and is more pliable to be carried. But the hollownesse ought not to be much. He would baue it also:

3 Eight hand-fulls in Diameter | The Diameter ina circle is a right line, which is drawne from one fide of the circumference to the other passing thorough the Center. or middle point of the circle, dividing the circle in two equall parts: Here the Diameter of the target is taken for the exact bredth of the target, which ought to be , according to the Macedonian manner, eight handfulls, or two foote, that is 32 fingers. For foure bandfulls go to a foote, and foure fingers to a handfull. d Leo gives it three Spithams, d Leo cap. 6. that is 26 fingers, if he meane the great Spithame, which is of twelve fingers. And \$ 18. Pollux the less comprehending a handful he cannot meane. For so sould the bredth of the target lib. 2, each be no more, but three handfulls, a bredth insufficient to coner any mans body. Whether of 3 21. collecti them is the bitter will appeare in triall. The Diameter that fernes to cover the bodie from the upper part of the necke to the middle part of the thigh, is enough in these round targets. That, which is more . is rather troublesome, then fit for wife. And I am of Iphicrates indgement in targets, that performing the conering of the bodie, they should be as light, as may bee, least the shoulder be over-laden with vnnece sarie weight. In which regard I preferre the Target of Elian, beforethat of Leo; Elians reaching up to the beight of the necke from the middle of the thigh; Leos carying a handfull more in bredsh, which in the circumference groweth to a good proportion of weight and greatneffe.

4 No shorter than 8 Cubits | That is 12 foote. Short pikes against long have a great disadvantage. With the long pike a man is able to strike, and kill his enemy, before himself e can be touched, or come in danger of a storter, the pike keeping the enemy out for Pacicion Pafarre, as the length is. The experience of the battaile of Sorano, heweth it; where tel. partieums Vitellozzo Vitelli discomsted the Almaines onely with the advantage of pikes an arme lib. 3. caps. longer than theirs. Against long pikes, this policie was wfed by Cleonymus the Lace- & Polyca.lib. demonian King as 5 Polienus tells. Cleanmus besieging Adessa, and having over- 5 2.

throwne the wall of the City, the pikemen of the City salied out, whose pikes were each 16 cubits in length. Cleanymus closed his Phalange in depth, and commanded the file-leaders to lay away their pikes; and when the pikemen of the enemy came to charge, to feaze vpon their pikes with both hands, and hold them falt, and the followers to passe thorough by the file-leaders sides, and maintaine the fight. The file leaders laid hold on the pikes, and the enemy strone to recouer them out of their hands. In the meane time, the followers paffing thorough the ranke of file leaders to the front, flew the enemies pikemen, and got the vi-Crorie. This was Cleonymus denice against long pikes, which notwithstanding derogates nothing from the length of pikes more, than from [hortnes. For the same policie might have prevailed as well against fort pikes, as long, each, affoone as the enemies have ferzed upon them, growing to be of no vie. But that the longer pike is to be preferred before the (borter, I baue shewed before by reason: and the reformation of armes made by Iphicrates amongst the Athenians, and by Philopomen amongst the Achaians, will be warrant enough fo to hold. In the length notwithstanding ought, to be a reasonable consideration, that it exceede not the measure of his strength, that shall beare the pike.

The worth that the File-leaders, and next followers fould be of

# CHAP. XIII.

THE File-leaders (as the Commanders of files of the Philange) are to be the choice and flower of the Army, and to excell the reft as well inflature, as in experience and martiall skill. For this Ranke knitteth and bindeth in the Phalange, and of all other yeeldeth greatest vie. For, as a sword taking to the edge as a weight, and sway, the swelling your towards the backe exhibiteth thereby more violence in piercing, so in a Phalange the Ranke of File-leaders is the edge it selfe, and the multitude of after-comments is the swelling, and sway, and increase of weight.

Consideration must be had likewise of those that follow in the second Ranke, represent in youthy oner the front, and being next in place they are alwaies ready for wie. And the File-leader falling, or being wounded, the next follower slepping to the front in his place, holder thought front in the tenor of that Ranke vabroken.

Furthermore, we are to order the third and the rest of the Rankes according to reason, and as the valour of our souldiers shall require.

This Chapter (beweth how the Souldiers are to be ordered in enery File: whereof, because I have before poken sufficiently immy Notes to the fifth Chapter; and the words of this Chapter earry no difficultie, or observation with them, I will sorbeare to treat any surfier.

CHAP. XIIII.

1 The Macedonian Phalange, hath beene thought to be vnrelistible ] The fremest of the Macedonian Phalange appeareth noway better, than by the conquests in bath made. King Philip was the inventor of it; and by that invention raised the kingdame of Macedonia from the poorest, to the powerfulest, and greatest kingdame of Europe; and (that Imay whether words of Dioderus Siculus.) sinding the Crowne, of Dioderus at his comming to it, in bondage to the Illyrians made it asserted Lady of many great Nations, and Cities; and purchased to himselfe, to be declared General of

Phalange. .

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throwne the wall of the City, the pikemen of the City falled out, whose ribe-

HE C DAPLET INCIDENT LICE SOBILIZETS ATE LO DE OTACTEA TO CHETY TILC: THETCOS. because I have before spoken sufficiently immy Notes to the fifth Chapter; and the words of this Chapter carry no aifficultie or obscuritie with them, I will forbeare to treat any further.

CHAP. XIIII.

Of the strength of the Macedonian Phalange, and length of the Souldiers Pikes.

of Elian.

### CHAP. XIIII.

→HE 1 Macedonian Phalange hath of enemies beene thought vnressitible, by reason of 2 the manner of embattailing. For the Souldier with his Armes standeth in close order, or shutting, when he is ready for fight, 3 occupying two Cubits of ground. And the length of his Pike is lixteene Cubits according to the first institution, but in truth it ought to be foureteene Cubits; whereof the 4 pace betwirt the hands in charging taketh vp two Cabits, the other twelve lye out from the front of the Battaile. Those in the second Ranke, that Rand next to the Leaders (loofing foure Cubits in the Phalange) have their Pikes reaching over the first Ranke ten Cubits. Those of the third Ranke eight Cubits, of the fourth Ranke fix cubits, of the fift 4 cubits, of the fixt 2 Cubits. 5 The Pikes of the other behind cannot attaine to the first Ranke. And seeing fine or six pikes are charged ouer the first Ranke, they present a fearefull sight to the enemy, and double the tirength of the fouldier standing fortified, as it were, with fine, or fix P.kes, and seconded with a maine force at his backe, as the figure sheweth. Moreover they that are placed after the fixt Ranke, albeit they puth not with their pikes, yet thrufting on with the weight of their bodies, r'enforce the strength, and power of the Phalange, and leave no hope for the File-leaders to flie, or thift away. Some would have the hinder pikes longer, then the formost, that they of the third, and fourth Rankes might beare out the heads of their pikes equally with the first.

6 The Superordinary Lieutenant of every Syntagma must be a man of vnderstanding, overfeeing the fouldiers of his command, that they file, and ranke; and if fer feare, or other occasion, any forsake their ground, he is to compell them agame to their places; and in Cloting to put them (when neede requireth) as neare vp together, as they should stand. For it is a great strength, and affur ance to the Pinlange, to have some principall Commander not onely in from, but also in the Reare of the Battaile, for the causes before mentioned.

## Notes.

THE strength of the Macedonian Phalange, which consisted principally in the appear in the protention, and charging of pikes, and kniving together of Targets, is here a Appear in Set downe. The whole Chapter Seemeth to have beene taken out of Polybius, who hand- Synicis gr.E. leth the fame argument, and almost with the same words, but that Elian, and he differ 763 E. about the number of Cubits, which the Pikes take up reaching oner the front of the Phalange.

1 The Macedonian Phalange, hath beene thought to be vnrefiffible ] The fireneth of the Macedonian Phalange appeareth noway bester, than by the conquefts it bathmide. King Philip was the inventer of it; and by that invention rasfed the kingdime of Macedonia from the poorest, to the powerfulest, and greatest kingdome of c Diod Sicol. Europe; and (that Imay refethewords of Diodorus Siculus.) finding the Crowne, b. 16,10. at his comming to it, in bondage to the Illyrians made it afterward Lady of many great Nations, and Cities; and purchased to himselfe, to be declared Generall of

763.D.

Flamin.

260 C.

Lavdec. s.

1.b.4 73.

armes

Greece. And first ouerthrowing the Illyrians, Paconians, Thracians, and Scythians, afterward tet voon the kingdome of Persia to breake it, after he had enfranchised the Gracian Cities of Alia. And albeit death intercepted him, yet he left such forces to his sonne Aleander, that he needed no other Alles to overthrow the Soued Diodor Sic: raignety of Persia. After his death d Alexander tooke his kingdome, and Armie. and with it encountring, and vanquishing Davius in two great Battailes, runne thorough Plutatch, in Alia like a flash of lightning renting a pieces all, that relisted, or flood in his way, and Alexand: o Qu Curt de laid the foundation of that kingdome, which (albeit afterward divided) continued long reb. geft. Alex. in his Successors. Neither was the experience of their invinciblenesse against the barbarous people onely, but as much against the Gracians, who till Philips time were esteemed the chiefe masters of Armes in Europe. This is cleare by the victories, the Macedonians e Drod. Sicul. obtained against the renowned Cities of Greece both joyntly and severally. Philip ouerthrew the Phoceans, albeit the Lacedemonians, and Athenians joyned with them. luft.lib 8. The same f Philip at Cheron a defeated the power of the Thebans, and Athenians t Dio . Sicul. hb 16555 iorned together. & Alexander tooke and facked the Citie of Thebes, that about that Plutarch in time was accounted the mightiest Citie of Greece. h His Lieutenant Antipater forled Pelopida. the Lacedemonians in a let battaile and flew their King Agis. Antigonus Tutor of Iuftin hb.s. g Diod Sicul. King Philip the Jonne of Demetrius, broke an Armie of the Lacedemonians and Pe-1 b. 12. 565. h Qu Cu sus loponesians at Selasia, and chased out of Greece Cleomenes the last brave Kine of lib 6:07. Sparta, Briefely they were not beaten in the field by any Nation, but onely by the Ro-1 Polyb lib 2 mans. And yet the indgement of & Polybius, doth in this also proue it selfe good. Polyblib. 17 For where the Romans had thefe victories against the Macedonians, he assigneth this to be the cause, that the Phalange at the time of the fight had not the proper place, not meanes to vie it owne power in the encounter; so long as the Phalance hath ground enough, and can meete the enemy with a right front, he holdern it not possible to be foyled, being divided, and in places vneven, he is of opinion, and experience bath taught, it may easily be put in a route. 1 Plutarch compareth it for strength (so long as it is one bodie, and maintaineth the Synaspisme iointly) to an invincible beaft; being differered, he faith, it loofeth the force in the whole, and in euery man particular, both in regard of the manner of arming, and also because the violence of it consists rather in knitting of all parts together, than in particular of any mans valour. Three battailes (to pratermit divers skirm fbes.) I finde the Romans had with , and therein foyled the Macedonians; One against King Philip . the foune of Demetrius; an other against Antiochus; the third against m Pin aich in Perfeus the fonne of king Philip. " For Ipaffe over those, wherein they were beaten by Pyrrhus, and had the worft. " Philip breaking his Phalange, and not wfing the whole n Polyblibar together, but fighting against the Romans with the right winge onely, yet had the better, Plutarch.:n and was too hard for that part of the Roman Army, that toyned with him; but the other Flaminio. winge comming into the field, fit rather for amarch, than a fight, and not being able to order themselues Phalange-wife, were some defeated, and the Roman victorious, fell upon the reare of the right wing (where Philip was, and had now gotten the victorie) o Appian in and so wonne the field. Antiochus vinskilfull intrue ordering of a Phalange, tru-Syracis 197.D fled rather to his herfe, than his Phalange, and being to fight with L: Scipio, where hee (hould have given full scope, and extended the front of the Phalange, by making it 16 deepe he contrary-wife narrowed it, drawing out the depth into 22: whereby he loft the advantage of matching the front of the Romans, and after his horse were beaten. P Plutarch in gaue facilitie to the enemy of encompassing on it all sides. P Perseus toyning battaile

with Paulus Emilius, as long as the Phalange continued in the right figure, flew many

of the Romans, and forced them to retire, but following on too eagerly, became to un-

even, and rough ground, wherein the Phalange being differered, left paces, and breaches for the Romans to enter and defeat it. Solon, then, as the Macedonian Phalange had fit ground, and the right property of embattailing, it flood fast against the Romans the greatoft fouldiers that ever were, being in their hands, that knew not how to vie it (as a sword in the bands of a childe) it yeelded to time and fortune. The cause of the strength of the Phalange is assigned to be

2 The manner of embattailing Which confists principally in ordering of Target, and pike; in closing of the Targets by Synaspisme, and in ioint charging of the pikes; which lying out thicke from the front, besides the horror of the sight, vine almost an impossibilitie to enter the Phalange. I have alledged the indgement of Emilius e Plusech in concerning the fight presented by a Phalange, when the Pikes lie fo charged out of the . Emilia. front. Polybius thinketh nothing can resist the force thereof. Livy, albeit many (Polyblib.tr. times more than partiall to the Romans, yet in the felfe-same fight betweene Perseus 764. A. and Emilius gineth his indementations of the Phalange: The fecond Legion (faith he) slibs 573.C. infinuated it felfe into the middle empty place, and so broke asunder the Phalange. Neither was there any more enident cause of victory, then the fights in divers places at once, which first troubled the Phalange in turning many wates, and afterward plainly distoynted, and scattered it, whose forces being united and rough with charged pikes are intollerable. If by giving on in divers places you constraine it to bring about the pikes immoueable through length and weight, it entangleth it selfe with consused crossings. If at one time you charge it both flanke, and reare, they fall afunder like a ruinous building. As then they were compelled many waies to answer the Romans, and so to breake their battaile into many parcells. And the Romans vpon the first opportunitie of a breach straight waies conveighed in their troupes, who if they had met the enemy in front, had runne vpon the pikes, as in the beginning it hapned to the Pelignans, being too forward to come to hand, and could not have relifted the Phalange fast shut, and serred vp for the encounter: thus Livy concerning the Phalange. Who albeit a Roman, holdeth the same opinion that Polybius doth. " And in an other place telling of Philips encamp. " Livy decad. ing, he faith, he was lodged in a wooddy plot, which was wnfit for the Phalange, 4 lib. 1.18. especially of the Macedons, which vnlesse it cast the pikes, as it were, a muniment before the Targets, (and that cannot be, but in open ground) is of no great vic. So then if Pikes may be charged out before the Targets, the Phalange is of great vse. But, that I may not seeme, to rely upon bare opinion, let us heare by an example, or two, the experience of the Pike, and Target of the Macedonian against the Roman armes. \* When T. Quintus Flaminius the Rom: Conful had driven King Philip, and his army x Livy decad. from the streights neare Antigonia, seeing that the enemy kept himselfe with his 4.16.2.30.C. strength, and absteined from the field, he determined to try the Cities of Thesa-4; and having wonne fome by force, fome by feare, he came before Rhage, and besieged it. He found the siege longer, and more difficult, then any man would haue thought. And the enemy made his resistance, that way, the Confull would hardly haue beleeved, he could. For he imagined that all his labour should be in throwing downe the walls. If once he found paffage for the Army to enter, there would after be nothing else, but flight and flaughter, as is wont, in wonne-Cities. But after that part of the wall was throwne downe with the Ramme, and the Armie entred the Citieby the breach, it was the beginning of a new and fresh labour. For the Macedonians, that were therein Garrison, being many, and chosen, thinking it also a glory to them, if they could defend the Citie, rather with

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armes and valor, than with walles, ferring themselves close together in a deepe Pharange, when they perceived, that the Romans began to enter the breach drove them out, the place being cumberiome, and hard to make a retreat. The Conful much offended therewith, and thinking that shame concerned not only the deon wounds, and vpon certaine, and fore seene death. So the formost falling, the followers began to flacke. And yet they fled not, but retired to the mount called Appian in Sy. Olacrus. I will out of Appian some a third experience in the battaile of Antiochus

lay of winning one Citie, but also the state of the whole warre, ( which for the mott part dependeth vpon moments of small matters) purging the place which was heaped up with the fall of the halfe-ruined wall, advanced a Tower which in many stories was stuffed with multitudes of armed men, and sent besides Cohorts vider their Enfignes to breake with maineforce (it it were possible) the body (they call it the Phalange) of the Macedonians. But the kinde of weapons and fight was more aduantagious for the enemy, than for the Romans; especially in that place, which was narrow, and streightned with the small space of the ouerthrowne wall. When the Macedonians, ferring themselves close, had charged pikes of a great length before their front, and the Romans, after their darts throwne in vaine against the Iefludo compacted, as it were, of the thicke knitting together of the Targets, had drawne their (words, they could neither come vp close, nor cut a funder the pikes. And in case they cut the heads of, or broke any, the steale amongst the rest of the whole pikes filled up the roome with their sharpe fragments. Toyne that that part of the wall, which was yet whole, fecured the enemies flankes on both fides; neither needed they much ground in retiring or advancing to charge, which things are wont to cause the breach of array. There also fell out a chance which increased their hopes, and spirits. For the Tower being driven on vpon a rampier, that was not well rammed underneath, but had loose earth, one of the wheeles finking deeper into the ground than the rest, made the Turret to nodd, & lie of one fide, that both the enemy beleeved it would fall, and they within it were put in a pitifull feare. When nothing succeeded well, the Confull was cuill appaide, that the Macedonian fouldiers, and kinde of Armes. might seeme matcheable to his, and seeing no great hope of speedy winning the Citie, and that the place was vnfit to winter in, railed his fiege. So herethe Macedonian fouldier is not onely equalled, but also preferred before the Roman, and that onely by reason of his armour, the Pike and Target. Another experience fell out in the battaile betweet Perfeus, and Emilius, whereof I spake in this Chapter. The storie is this : The Romans comming to joyne battell with the Macedonians, and not able to come up to them by reason of the length, and joint out bearing of their pikes. There was one Salius a Captaine of Peliguans, who tooke the Enfigne of his Company from the Enfigne-bearer, and threw it into the Macedonian Phalange. The Pelienans ranne in heapes to the place (for it is not lawfull, nor honest, for the Italians to forfake their Enfignes) where the medley brought forth wonderfull effects. For the Pelignans fought with swords to put by the pikes, and to preffe them downe with their Targets. And feazing vpon them to pull them out of the handes of the Macedonians. The Macedonians contrary wife, maintaining their charge with both hands, and striking such, as approched neare, thorough the bodies, as mes and all, neither Target nor Carace, being able to sustaine the violence of the blow, turned topfy-turny the bodies of the Pelignans, who not with reason, but with the rage of wilde beasts, threw themselves desperately vp-

again,? L. Scipio, which llikewife touched before in this Chapter. As soone, as the Horse, and Chariots of Antiochus were put to flight by the Roman horsemen, and by Eumenes, his Phalange of foote being destitute of horle, first opened, and received the light-armed, (that had all this while fought in the front) into the middest of it. Then after-ward againe closed. And when Domitius Scipie's Lieutenant, incompassed it round with horse and light-armed, which he might easily doe, by reason it was thrust vp into a thicke Plinthium; it was driven to great distresse; being neither able to charge the enemy, nor yet to countermarch in so great depth, as it carried. It grieued them much, that their long experience nothing awailed them to annoy the enemy, and that notwithstanding they were subject to arrowes, and darts at all hands. Yet, bearing out a multitude of pikes on every side of their square, they called the Romans to come to handy blowes, and still made a countenance, as though they meant to charge, keeping themselues for all that within their Ranks, as being footmen, and heavy armed, and therather, becanse they had to doe, with an enemy on horse-backe. Besides they were loth to breake the thicknes of their battaile, which formethey could not now alter. The Romans also, durst not approach them, and come to sword, fearing their experience in warre, and closenesse of array, and desperation. But running about here, and there, plied them with arrowes, and darts, whereof none was throwne in vaine, falling amongst a troupe so closely put vp together, that they could neither avoide, and decline any thing throwne, nor give way, albeit they saw it comming. At last being weary, and irresolute what to doe, they retired easily, with a threatning countenance not with standing, and in good order, and not deliuering the Romans of feare, who durst not yet come neare, but fought to annoy them aloofe; till the Elephants placed in the Macedonian Phalance, being affrighted, and not to be ruled by their Gouernours, troubled all, and gaue occasion of flight: hitherto Appian. Out of these three examples, the truth of that , which Elian faith, is to be feene, that is, that the Macedonian Phalange cannot be forced, or refisted by an enemy, (taking with all Polybius his caution) if it be in the right posture, and figure, and have such ground, as is fit. The Romans the best fouldiers of all antiquitie were repulsed by it at a siege, forced to retire in a battell, durst not come neare it, after they had gained the field of the rest of the Army. And the Confull Emilius, aman that had feene much feruice, and fought many a battaile, and was one of the best Generalls of that time, confessed, he neuer faw fo fearefull a fight, as when he bebeld the Phalange advancing into the field, the bodies ioyned, the Targets served, and locked together, darting out fire like lightning, the front rough with couched, and charged pikes, and armed with yron, and threatning present death to

3 Occupying two Cubits of ground ] We may not take it, as though the fouldier betwier file, and file had two Cubiss, or three foote of ground. For we learned before that in locking up the Phalange, the distance betweene man, and man in front was but a Cubit. But it is to be understood betweene ranke and ranke. For Polybius faith, that the fouldier ought to have roome for the wife of his weapon, which cannot be, without granting him three foote behinde, the pike being some-times to be pushed forward, Some times to be drawne backe, sometimes otherwise handled, as occasion of fight shall

him, that durft approach.

The length of the Pike is 16 Cubits ] 2 Sixteene Cubits, which is twenty See Leo exp.s. foure foote, is a great length for a Pike, and it verifieth the words of Livy, 5 : & cap.6. that the Macedonian Pike is vnwealdy, by reason of the length, and weight; 33.

P'urarch-in

b Polyenlib a ret doe wee read of pikes of that length . The b Adeffans had fuch. The c Chalybes pikes were about 15 cubits long. 4 But 16 was the length at the first, the Maccdoni-Xenot hon de ans brought it to : 4 which they tooke to be a sufficient length against the commit, and eafier for the Pike-man to beare and bandle. expedie Cyr

lib.4. 338. C. d Po.b. l. 17. 764. A. e Polyb.17. f Lco (27. 6. \$ 39.

The space in charging betwixt the handes taking vp two cubits ] Herein is a difference betweene Elian, and Polybius. Elian would have no more, then 2 cubits lost in charging; Polybius (aith 4. are lest, and with Polybius agreeth Leo. But the caule of the difference arileth out of the forme of the pike, and of the manner of holding it in the charge. If it be held at the butt end with the right hand, and supported toward the armed end with the left, as the manner in charging is it cannot losse above two cubits, and Eian is in the right. But if, in holding it, you let the right hand 2 cubits from the buttend, then must 4 cubits of necessitie be lost. Whereof 2 rest behinde the right hand, the other two are taken up by the face betwint both hands. Our manner of charging is at this day, to take the buttend in the right band, and in lo doing we loofe but two cubits. But it feemeth our pikes are not made in that forme, they were in Polybius time. In Polybius age they had wei; his at the but: end to make the sharpe end the lighter, as the heavie pummell lighteneth the fword in handling. 5 This weight was called b secona. as it were a counter-weight to the heavinesse, and length of the pike. Neither do I read any thing ellewhere then in Polybius, concerning the counter-weight of a pike. To the lux for tecoma L4 C. 24. 5 1. handle of an Oare, I finde in ! Atheneus, that lead was added, to make the part standing i Athen disout from the fuppe more light. But yet Polybius, and Elians opinions may well agree. noforh.lib.s. and in pikes that have counterweights at their ends ( the hold for charging being taken two cubits from the butt end ) there may be loft four cubits , where the other fort being held at the butt end it felfe, loofe but 2 cubits.

k Polyb, l.17.

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The pikes of the other behinde, cannot reach to the first ranke | How Ball ther beare their pikes then? & Polybius sheweth, what the manner was. Those rankes, (aith be, that frand behinde the fifth, can helpe nothing to the fight in front. And therefore they charge not their pikes low, but beare them towards their forestanders shoulders, the points somewhat erected to secure the battaile from about, intercepting by their thicke lying the milliue weapons, which flying ouer the front, would otherwise fall upon their heads, that are placed toward the reare. Polybius faith, the manner was, (neither to charge, nor order their pikes, but ) to beare them forwards sloping towards the shoulders of their companions before. Tetby bearing them (o, what fecurity they could give from the missive weapons, that came aloft, I cannot jet conceine. An arrow, dart, or stone, unlesse it his just on the middest of the pikes, would do as much, and sometimes more, barme by glancing then if it had not touched them at all.

Some would have the hinder pikes longer ] The opinion of them, whom Ælian here fleaketh of , bath little reason to ground upon. For either the pike of them that come in the finerancks behinde, especially the two last must exceed in length, or else the fileleaders pikes in Bortneffe , both which are alike unprofitable. If they bee too long they cannot be wellded, if thefe too foort, the enemie shall reach the file-leaders, and not the file-leaders the enemie. The measure of the longest pike was 16 cubits, which yet for aptmelle and wife was by the Macedonians reduced to 14. Say then the fixteenth ranke carriet pikes of 16 cubits; two of the cubits according to Alian, are taken away in handling, other un by reason of the distance of the fine former rankes. Foure cubits alone remaine, and reach ouer the front. If the file Leader in the front Shorten his pike to foure cubits to make an even extention, he shall not come neere the enemie by ten cubits, who in pulbing will reach home to him. For what length focuer, is taken from the file-leader in

of Elian. front the same is given to the enemie, that pulbeth with him. And bee Ball bee able to yound the file-leader, and not the file-leader him, effectally the pikes differing in forest

6 The superordinarie Lieutenant of every Syntagma ] I have before noted the datie of a Lieutenon: of the Syntagma, and it is here well expressed by Elian. the, that desireth to see more touching the same, let him resort to X cnophoos Cyropadia: lib. 2. 28. and lib. 7. 178. B. and to Leo, cap. 14. 679.

The place of the light-armed, and the number of every file.

Hus much of ordering and marshalling the armed-foote. .. I will adde a word, or two, of the light-armed, or naked. The Generall is to place the light-armed fo, that they be readie for all accempts of the enemy, sometime in front, sometime in flanke, sometime in the Reare, according to occasion or neeessity. For our purpose let them be thus ordered: We will frame also of them 1024 files as many, as the Phalange of the armed conteined; So that the first file of the light-armed be placed directly behinde the first file of the armed, and the fecond file behinde the fecond, and fo the reft. > Yer shall they not be fixteene to the file, but halfe so many, namely eight; so that in 1024 files there shall bee eight thousand, one hundred, ninety two men.

### Notes.

Itherto all things concerning the arming, filing, embatteling, number, command, distance and precedence of the armed are declared; and likewise, of the arming of the light and somewhat of their place. Wow followeth the filing , ranking; and place more exactly, and their manner of embattailing, with their feneral bodies, and

The Generallis to place ] I have spoken somewhat before of the placing of the light. I will now onely adde a passage of Leo tending thereunte. Leo saith thus, you along the shall range the Archers behinde the reare of every file according to the number \$ 60. of the file, (that is four elight for twenty fix armed, proportioning an Archer for energy foure armed. Or if it be needfull, you shall order them within the files, an armed, and an Archer. Sometimes without the wings of the battaile; that is within the Horse. Oftentimes without the Horse a little distance, with a few Targetiers, to defend the vitermost flankes of the Horse. And this is to bee done, when you abound in multitude of light-armed. But those, that vie small dares, and iauelins, and such like are to be placed, either in the reare of the armed, or in the wings of the battsile, and not in the middele. The slingers are alwaies, to bee set in the wings. Thus Leo placeth his light armed. But Ælian here ( as before in the fenenth Chapter ) designeth their place in the reare, but fo, that bee leaveth it to the Generalis choice, and to the occasion of service to place them, as most besitteth. Being set behinde jus Blians order is, they must answer the armed in number of files, & be directed by the files of the armed for their standing that is enery file of the light-armed is to order is selfe in a

# The Tacticks

right line after a file of the armed in fuch manner, as the armed are before embattailed.

Elian in the beciming divided the fone into threeperts, Armed, Targetieres, and light-armed. To the armed he hat given place, and maketh the Phalange to confift of them, the light-armed he rangeth in the reare of the armed, what fadluctome of Tagetiers; for he speaked what shall become of Tagetiers; for he speaked who are word of placing them. By that tread in Artina I would think, they were placed amongs it the light-armed, and next to the armed. First because Elian faith, many number them mongsit the light. Then I see the Hypassiphis placed betwint the Hosse, and the armed in Alexanders field; at Granicus, at 180s, and as Gaugamela; Lastly Leo in the passage before recited, when he placed the light-armed without the Hosse, he inputed Targetiers with them, for their safegard. Cytus likewise placeth them next the armed in the reare; and after them the Archers.

2. Yet hall they not be 16.] The file of the light-armed is lesse in number, then the sile of the armed. Ber if they should be 16 in file, the number being but hip te at the sile of the armed. Ber if they should not be able to make above \$12. siles, and breeding there by a dispreportion best in placing, and corespondence one to an other, not equall the length of the Phalange. Besides shading eight in sile, and in the reare, their spring weapons willbeet with more force against, their enemies in as much as the bindermost of them are nevere the enemies to twentie sour seeing eight in a file of 16 deepe the yet and miss successive the second source they source they come. As they burn not greatly, if the distance be so farre, from whence they come.

# The names of the bodies of the light-armed.

#### CHAP. XVI.

Their names and degrees are thefe. Foure files of light-armed are called \*a spifasis of 3.2 men. Two Spfasses a \*Pentecontarchy of 6.4 men. Two Pentecontarchy of a country of 1.28 men. Is a cuery Century ought to bee 5 Superordinaries men: an Enfigue, a Reure-commender, a Trumpetter, a Seritant, and a Crier. Two Centuries containe 2.56 men, and are called \*a Psign. Two Psilagiesa Xenagy of 512 men. Two Xetongies 2.5 firenma of 10.2 files, 2.5 files,

#### Notes.

A s be armed were diffinguished, and sewered into divers bodies in the Phalange, he are she light-armed, in whom there one she to be me helfeorder, then in the armed.

A multitude condigested bringesth with it disorder, and confusion. Noticher can any service be expected from them, who by spe dissistant are not cash into bodies shi for crasice. We have before sphear of the name of the bodies of the armed, and noted, has they were not imposed with such propriety shat they could be applied to no other thing. At the shift were not was made, and men sough of, a wild be obligate space location; led with spirit, and seg, and we wish shill, and be premaited to the was the strongs. Experience taught there were admanage in stime, in Place, in Order, in instruments of sights, in placing of men, and

Cap 16 The hight Armed A Pentecontare by

ned are before embasticiled.
Are before embasticiled.
A the Phalange to confif of
d, what fluid occome of Tage.
eads in Arisa it what brink,
armed. Fiff because Alian
Hypasphis placed betwire
s, at lifes, and at Gaugamethe light-armed without the
d. \*\* Cyrus likewise placeth
betwire.

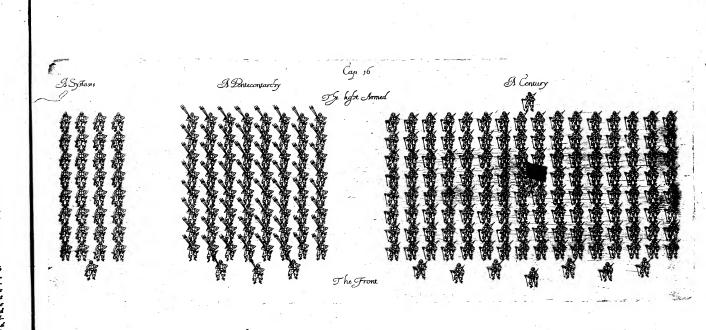
thers.

med is leff in number, then number being but buly to the bush derecting there by a diffrapering the being the Pharm buly me being the pharm buly me being the pharm figure weepens with beef end makering of its deep take up. And with a gainfl amore, with more unce be too farre, from whence

s-armed.

of light-armed are called \*a archy of 64 men. Two Penteought to bee § Superordinarie, a Seriems, and a Crier. Two agy. Two Piplagiesa Euragy of Two Epistenagtes a Stipbes of \$192 men. Thefe ought alfo uld bee Episenagies, the other

disers bodies in the Phalange, for so life order, them in the ermod. decoupling. Neither can any ferto cap into bodies fit for (ermice. We cad, and sorted, that they were not to be their fits they were not to be they fit ware they be dwitch friend and Experience taught there were adso fight, in placing of ment, and it also fight were adso fight, in placing of ment, and it.



in other circumstances. Hence spring the Art of Warre, the diners formes of weapons; and the signres of Battailes. For the speeds framing whereas, the smaller bodies were invented, of which they consist. In building of a boule, you first bring timber together, and abor matter, and then of it frame walls, over, windowes, refers, becames, and they cost, which must be all conional together, before the salition of the boule will appeare. So in an Army the promission of men was sirst requisite, which being sound, and longing together by Leavier, were armed, and after ordered into several bodies; and these being compassed together, becauthe frame and substance of the Palange. And as althings newly invented, stand in meede of names to assert things; So name were given must be bodies not proper and sit; but such as williary with shought convenient enough to signific the things they means. I have needed to before in the name of the Petrarchy, Taxis, Syntagina, and other, and it will appeare agains in this Chapter.

But here Imsy not pratermit the curiofitie of the Gracians in their appellations, and their plenty of speach, apt to give diversities to things, that are divers. For where there we have no summing it armed, and light-armed, which consist of the same number, and timefore, as it seemes, might well enough have beene comprehended ander one name, the notwithstanding to avoide confusion, and for perspicuities sake have thought good to cell tiem by sundy many two armed men are called a Dilochi; 32 light armed are a Systalis; 64 armed are a Terrarchie; 64 light armed a Pentecontarchie; 128 light, a Hecatontarchie. Our tengue will not assert such a tientum of the body, and of the command. A certaine number of Pikes under a Captaine we call a company of Pikes; 85 many sold under a Captaine well-kenviscalla company of son. The Captaines, owner Captaine of Pikes, and the there are so show the summy for Curacers of harse, we call a troope of Curacers; as many Argoleters, a troope of Argoleters. The Commanders of either of them we some Captaines, the meet Curacers, the other of Argoleteres. But let volume to we have tables in the other of Argoleteres. But let volume to the policial controlled in the other of Argoleteres. But let volume to the other of Argoleteres.

I Afghasis] It commeth of Synistems to stand together; and afghasis is a standard together; which word albeit it may be extended to any kinde of people assembled, and standing together; yes it is here appropriated to souldiers; and more particularly to 4. siles of light armed consisting of 22 men. 8 mengoing to the file.

A Pentecontarchie The command of 50 men. And foit was wied of old.

But the Macedonians gave 64 men to this command, and get retein a the name, because it was familiar, and nell known.

A Century ] Elian c:llethit a Hecatontarchie, the command of a 100 men. The name was visual before the Macedonians time, and it conterped 100 men. But the Macedonians game it 128 men. This was unjureable to the Syntagma among it the armed, and had the like officers. Yet whether it had a Captaine, or no, may be some doubt; the rather because Elian in this Chap: nameth no Commanders, but Systrematarchs, and Epixenagies; and time the would have super-ordinary. For my part, stinke they had Centurions also. For as eurory body of the armed had a bead, for would thinke it requisite also amongst the light armed, especially some officers belonging to a Company; which unless there was a Bringer-up, and other concerning the Eor of the revere no Captaine, to whom should the Crier, or Trumpets, of Stegant of the Centuries refort for direction? Adde, that the light were often drawne to the winges, to the front, or other places of senies, which could not be done without Leaders. For to put a Systematarch, or an Epixemagie to lead a Century, were to leau ether off of the Centuries when them without a Commander. Besides.

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b Xrnorh.de exped Cyri, lib. 1. 270 D c Xenoph de exped lib.4. d Arrian, lib.

22 B.

the Macedonians were very particular in their commands, and left no body without a head; which is the cause of the multitude of Commanders in the Phalange. But they are not here mentioned. No more are the " Commanders of the horfe in the division of the Lodges of the borfe, and yet I thinkeno man will doubt , but the horfemen had Commanders. Lufter, I finde in the Græcian historie, Captaines of the light-armed often named. Epithenes is said to be Commander of the Targetires, in a fight the Gracians had against the Persians. 'Stratocles commanded the Cretan Archers in the returne of the Gracians out of Persia. L'Eurybates Captaine of the Cretan Archers in A. lexanders army was flame by the Thebans at the flege of Thebes. " When Antiochus the Capsaine of the Archers was dead, Ombito was chosen in his place. Mention is made alfoin Arrian of Clearchus the Captaine of the Archers. And when Elian e Arrian lib. 2 calleth the 4 Systremmatarchs, and the 4 Epixenages Superordinary (Ectactous) he might have faid as much of all the other Commanders. And he faith exprest of the offef Arrian.lib. 1. cers of the Centusie, that they were superordinary (Ectactoi).

4 A Pfylagi ] The word is a body of light-armed. Which word, if it were taken. as it naturally fignifieth, is common to, and comprehendeth all the bodies of the lightarmed, whereof Elian peaketh in this Chapter. But here it is restrained to a body of light-arried, which compriseth 256 men, and 32 files, and foit is to betaken.

A Xenagie | That is a command of strangers. Elian before faith, that a Syntagma was by some called a Xenagie. I have given my opinion there of the original of the word, which I neede not to repeat here; This onely I will note, that of all the bodies of the light-armed, no one bath a common name with the body of the armed, but onely the Xenagie. And Elian giveth also that body of the armed an other name, calling it a Syntagma. The Xenagie bath in it 512 men, and 64 files.

A Systremma ] & It fignifieth a conglobation, or trouping together. Proper names are wanting for thefe bodies, and therefore such taken, as might at any hand signific the thing g Polyb. lib. 1. meant. In continuance of sime wie bath gained a passage, and made them to be accepted as proper enough. The Systremma conteineth 1024 men, and 128 files. There is nothing to be found in Elian of the Chiharchie of the light-armed; Tet doth h Arrian mention 2 Chiliarchies of Archers in the Army of Alexander.

An Epixenagie] Acommand aboue a Xenagie; As afterward in the command of the horfe, there is an Ephipparchie about a - ipparchie. The word is improper and hardenough; but when it is received by wfe, what fhould we feeke for more? It contest. neth 2048 men, and 256 files.

A Stiphos | It is derived from Steibo, to thicken, and in penary of another name, this body of the light-armed is called Stiphos , because they are thickned , and thronged sweether. There is init 4096 men, and 256 files.

An Epitagina ] Is the last body among st the light-armed. The fignification of Epitalle is to place behinde. From thence commeth Epitaxis , placing the light-armed in the Reare, which word is after wied by Elian. Epitagma is derived from the same fountaine; and it is called Epitagra, not of placing behinde, ( for sometimes they were placed before, sometimes in the flanke but it was the best name they could give to the whole light-armed. And ret it may be, that because all the light-armed in auncient time were placed behinde, the whole maffe was called Epitagma, as being placed after the armed in the reste. The Epitagma buth in it 1892 men, and 1024 files, for for many lightarmed attend the Phalange.

Eight superordinarie men Why the fe eight men fould be superordinarie more than the rest of the Commanders, I conceive not yet. If Alians meaning be, that these alone fball command the light-armed , historie and practife of anneient times convince the of Elian.

contrary. Besides where he nameth foure Epixenagies, it agreeth with the number, that are in the Epitagma of light. But where bee addeth foure Siftremmatarchs more to make up the number of the eight Superordinarie, it is hard to knowe, which foure bee meaneth, considering there are eight Sistremmas in the Epitagma.

Now because the files of the light-armed are in embattailing to be marshalled to the files of the armed, I thought good to fes downe how the bodies of both agree, by comparing them together in files, not in number of men. For in number of men they cannot well agree, because the file of the armed hath more, then the file of the light-armed. And the number of the armed in groffe is 16384, of the light-armed but 8192. And I will first begin with the Suffalis, because it is the least hady of the leads

The bodies of the armed		ishe amad	1
The Bodies of the armed, A Tetravelie A Taxis A Syntagma A Pentecofrachie A Chiliarchie A Meravchie A Phalangarchie A Phalangarchie A Tetraphalangarchie	The bodies of the la A SyHafis, A Penticontarchie, A Hecatontarchie, A Polagie, A Xenagie, A Xenagie, A Stremma, An Epixenagie A Stiphos An Epixema	4 8 16 32 64 128 256 512	files files files files files files
1	Pringing	1024	files.

# The vie of light-armed foote.

# CHAP. XVII.

Arters, Archers, and all other, that vse flying weapons, are good to begin the fight a to prouok the enemie, to breake and shatter armour, 3 to wound, annoy, and beate downe a farre of, + to difaray the enemy, 5 to repulse their horse, to beat in their light-armed,7 to discouer suspected places, and to lay Ambushes. Lastly these first undertaking the Skirmish, and continuing it with the rest, and seconding them, and seruing 8 for speedie, and farre-of-attempts, worke many, and great effects in fight.

#### Notes.

He arming, place, siling, bodies, and command of the light-armed are bitherto bandled: Now followeth the vie, and service they performe in the field. And first wee are to thinke of the bodic of an armie, as of the body of a man, that is compact of severall parts : Of which some parts are of more wie then other , some being able to performe their function without the helpe of the other, some except the other help, can doe nothing to pur-Pose of themselves. The parts of an armie are like. The armed are the strength of the field, and are the refuge for the rest in extremitie. The light toyned with the armed, worke great effects (these which Alian Speaketh of in this Chapter and many more ) without them they cannot so much as maintaine a place in the field. And as Xenophon faith, a Xenoph Cy-Let them be neuer fo many in number, yet dare they not stand or abide a fewe 188. C. armed. In which respect, a place fit hath alwaies beene fought for their service, to secure them from the accesse of the Horse, or of the enemies armed. Which place was either be-

h Arrian.lib.

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hinde the Phalange ( as Alian here would have it ) or else in the wings between the Horse, and the armed, or if they skirmished loose before the front, and chanced to bee presled with the enemy, they retired into the internals, and conneied themselves behind the bleo cap. 14 Phalange in safette. Leo saith, if there be any place of strength, it will much helpe the light-armed. For after their flying weapons spent, reciring thither, they will be in more securitie, as a steepe rockie place, or the bancke of a river, or a high hill, or such other. Our stories report, that at the battaile of Agincourt in France 200 English Archers were bestowed in a meddow fenced with a deepe ditch ; from whence they (a onuled the French horfe and foot, that they were a great helpe to the victorie. The like happened before at Poitiers, where that braue Prince of Wales eldelt sonne of Edward the third having to fight with the whole you er of France under the leading of their King, gave (afegurd to his Archers, with heages, and ditches, and other strengths. So that the French horle having no accelle to diforder them , were overwhelmed with the tempelts, and stormes of their arrowes, and such a victory obtained by our nation, as might match the most renowmed of all antiquitie. To (ay nothing of the invention which Hensie the fifth ofed against the horse of France for securing his Archers. The storie faith, he denifed stakes of two yards long, and armed both ends with pikes of iron, the one to flicke into the ground, and the other to gall, and enter the horfes bellies. in case they came to charge our Archers home. By meanes whereof he caried the famous vittorie of Agincourt. This for the affurance of the light armed, when they come to fight, without which assurance, their service would be weake, and searce worth the having. Their service then according to Elian bath many particulars. And they are good to

Prouoke the enemie I If the enemie be in a wood, a fenne, a hill, a fort, a towne, or other place of firength, that admitteth no accesse, the manner hath beene to send out the light armie to shew themselves, and with a Brauado to towle him out of his advantage, and bring him into the field, where he may more eafily be dealt withall. Examples are plentifull, but I will content my (elfe with a Maccdonian example. Alexander leading his armie against the Triballs, that had hid themselves in a wood, commanded his Archers, and Slingers to runne out, and to shoote, and sling amongst the Barbarians to fee, if he could towle them into the plaine. The Archers, and Slingers foared not to let flie, and the Triballs being wounded with arrowes, threw themselves out of the wood with all speed, to fall upon the unarmed Archers. Alexander presently commanded Philotas with the Horse of vpper Mucedonia to charge the right wing; on which part they cast out themselves furthest. And Heraelides, and Sopolis with the horse of Botties, and Amphipolis the left, himselfe ftretching out in length the Phalange of foote, & fetting the rest of horse before the Phalange, led against the midst of the enemie. As long as it was but a skirmish, the Triballs had not the worst. But after the Phalange close ferred came vp roundly to them, and the Horsemen charged them no longer with darts, but pressed, and ouerbore them with their horfe, they fled thorough the wood to the river.

To beginne the fight ] d Leo agreeth. If faith he, we have light-armed enough, let them, before the annie joyne, fend their darts, and arrowes at the enemie, and 5 lb. 2 39. B. after the fight of the armed is begunne plie the flanke with their miffine weapons, that at ouce both their flankes may be affaulted. It hash beene and is now the ordinarie course to beginne the fight with the light-armed. And because wee shall read of no battaile almost wherein it was not so, I will forbeare examples.

To wound a farreof ] The light ferue to great purpofe, if the Generall defire not to e Lunderad. 4. come neere to fight, but seeke to annoy his enemie a farre of without danger of his owne 15.8.161.B. folkes \* Liuy tellethof Cn. Manlius Volso, that being to make werre against the Gallo Græcians.

Gracians, that fled into the mountaines, and awaited the Romans there, and fought to defend themselves, by advantage of the place, he prepared great plenty of darts, arrowers, bullets, and small stones for Slinges: and leaving his legionari. Souldiers behind, led his holt armed, against the every, that possessed certaine straights, by which his armie must passe. After some hight the Gallo-Gracians being not sufficiently armed, to d fend their bodies from the missive weepons, the light-armed of the Romans forced the paffage. And following them cuen to the Campe, where their Companions came to their aide, they first droug them into their Campe, and after the Legion wie Souldiers comming up, they wonne it. I have before rehearfed the biflorie of Iphicrates, who with his Targetires (that came (eldone to hand blowes but plied the enemie with dar. s. a farre of ) over threw and flewe a whole Moira of the Lacedemonians. The Acarmans, likewife with this kinde of fight, much incumbred Agefilaus, that made an excurfion into their Countrey. The flory is this, a Agefil aus having taken a great prey, in the territory of the Acarnans, e Xenoph hiff. rested that day, where he had taken it, being busie in selling of it. In the meane time many 512. D. Acarnan Targetieres affembled them felues together, where Ageillaus was incamped wpon the fide of a mountaine, and with darting and flinging, they forced his Campe to defcend to the plaine, themselves in the means time being free from hart. The next day Agefilaus led away his armie. The passage out of the place was straight, by reason of the mountaines lying about in a circle, which the Acarnans possessing, pled the Lacedemonians with darts, and stones, from the higher ground, and sometimes descending to the skirts of the hills, they pressed the armie lo, that it could not move forward. And when the armed, foote, or horfe, fell out opon them, they profited little : For the Acatnans retired immediately, to their strength. Agefilaus perceiving it would be hard for his armie to winde out of those straights, so long as the enemy so hung vpon them, refolued to charge those on his left hand. For the ascent on that side was more easie, both for his horse, and armed foote. Commanding therefore, his men to charge, the armed (of 29 yeeres of age) first fell on, and the horse after them vpon the spurre. Himselfe followed with the rest. The Acarnans therefore, that were descended, and busie a darting, were quickly put to flight, and many flaine in feeking to remount the hills. But their armed foote, and most of their Targetiers, stood imbattailed on the toppe, and from thence both threwe other missions, and lanced lauelines, wherewith they wounded horsemen, and killed fome harfe. But being ready to be charged by the Lacedemonian armed, they fled, looling some 300 in the flight. These light-armed then, as long as they can keep aloose from the enemie, annoy them fore by wounding ( as Æ ian faith ) a farre of; as soone as the armed come up, they are glad to quite their place, and faue them selues by flight.

4 To difarray | So long as a battaile remaineth in order no victorie is gotten against it. Breaking of array, and disbanding are companions of flight, and of for laking the field. The armed, that are to endure the efforts of the light armed, must either keepe still their order, and suffer themse' nes, to be knocked downe, and staine, as they stand, or else prouide for themselves, by flight, or by yeelding. For the light-armed effect wish their missive weapons the one, or the other. An exampl may be seene in the Ægyptians in exenoph Cy-Crælus his battaile, who after the defeate of the rest of the armie, maintained jet the 100. bb.7.178. fight, and yeelded not to Cyrus, though he had now the victorie. Cyrus at the first charged their backes with his horse, and being not able to treake them, was faine to command his Archers, and darters, to shoote and cast their darts at them: whirby the Egyptians after many wounds, and losse of their people, were finally constrained to yeeld. Alike example is before alledged f of Domitius the Lieutenant of L. Scipio, who with miffine f Appian.in weapons alone forced the Macedonian Phalange to feater, and take them lues to fight.

Craffo.

beil. African.

5 To repulfe their Horse The light armed alone, without a fure retreate to the armed, or elfe some place of strength, can doe little in repulsing of horse. I have shewed before in the exploite of Craffus into Perfia, how the light armed were beaten in by the Portian horje, and by the (hew of wounds, they received, and with their feare, discouraged the armed. The like happened in Antonies retreate out of Persia, the lightarmed being faine to shroude themselves from the Perlian horse within the Phalange of the armed. Be they never fo many without fome such affurance the horfe will foon overrunne them , having this affurance their feruice much afficteth horfemenboth in wound Liu.decad. 4. ding them, and in killing their horfe. I berefore a of ancient time it was viall to minole

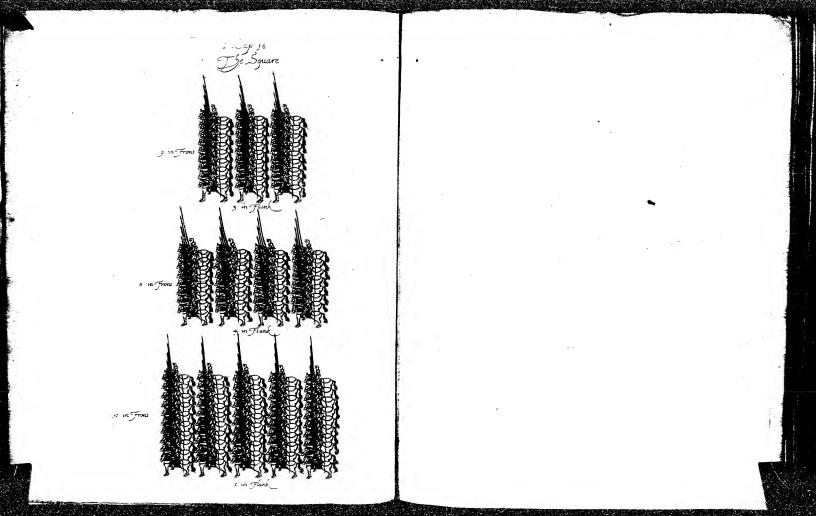
lib. 1. 16. A. B. horfe, and light armed together. For the enemies horfe (o charged, cannot be able to refift both. Anotable example is in . Hirtius : Cafar, (aith hee, having a journey in hand, and but a small number of Horse, and legionary Souldiers, was in his way fet vpon by the enemie abounding in store of Horse, and of light armed Numidians amongst them. And when the Souldiers of Cafar fellout to charge, the enemies horfe galloped away, and the foote stood fast, till the Horfe with a full carreare returned to the refeue. This kinde of fight troubled Cafar much , and would baue troubled him more, had hee not recovered hills, that were not farre of, and by that meanes shaken of the molesting enemy. And for repulsing horse there is no better meanes for the armed foote, then with the light armed to line that part of the battaile, where the hor le hall be about to give on.

6 To beat in the light armed ] The light armed being nimble and quick, and feeking alwaies aduantages by changing of ground, can never be forced by the armed foote. (who are charged with heavie furniture, and by rea (on thereof can make no feed) to feeke Succour in the battaile of their armed. Either they must be beaten in by the horse, or by the contrary light armed, as Alian hath heere. The Horse are commonly to encounter with Horse, and the light-armed with light-armed, amongst whom the greater number prevaileth, their skill, and armes being alike. For the fight being a farre of, many will f Xenoph. Cy- fooner wound, or kill a few, then a few many, faith f Xenophon: If the fight bee at hand the better armed, or better minded will drive the other out of the field. The 8 Roman Herfe, and the light-armed, were too bard for the Macedonians, and chafed them to their Campe. And that happened by reason their armour was fitter to close, and to fight at hand. So our Archers at the battaile of Creffy compelled the Genua croffebowes to for (ake the field, the english bowebeing better in vie, then the Genua crossebowe. When they have made the contrary light armed to quit their place, they are at li-

berty themselves to serve where most advantage may be had of their service.

To discouer suspected places, and lay ambushes | Suspected places are such for the most part, at ambushes are laid in. Ambushes are of two kindes, being laid either to endamage the enemies battell in the field, or to hinder, and disapoint his march. The places, such as are removed from fight, and had neede of special discovery. As woods, mountaines, forrests, rockes, banckes of rivers, caues, hills hollow, and deepe maies, and the like, The most part of which are rough, and intricate, and scarce passable for the heavy armed, and horfe. But the light armed that are not incumbred with weight of armes . & able quickly to advance, or retire, are fittest to lie close in such places, or to search if the enemie be lodged there. For the first kinde of Ambushes wee read, that both heavy armed. and horse have beene imploied. The warres of Anniball in Italy afford plenty of examples herein. For the other, which is to bifet or discover waies, there are none fo fit, as the light armed, whose quicknes, and expedition, give then advantage to asfault their enemy with their missue weapons, though the ground be never fo unequal, and meanes to view any place suspected without almost any danger of their owne.

8 For



8 For fivedy and farre attempts] A besuit ammedium is not fit for furreor fuddiane attempts; he is armed for a firme and fledfoff flore,, and not for concurficiation. A lexander, when four he was to role expedition, sooke with him the horse and light-armed, leaving the armed to come of her. "So did he, when he perfect of the concurrence and light-armed, leaving the armed to come of her." So did he, when he perfect of the concurrence and the concurrence of the formation of the horse and the concurrence of the concurrence

The falbion of Horse-baseailes: and first of the Rhombe, the Wedge, and the Square.

CHAP. XVIII.

Those, that have written before mee, have diversely framed Horf-battailes, fome of infl fourses, some longer in flanke, then inffours, some like a klonde, fome like a liked ge, but none of them have (if I may speake freely) expressed fully their owne conceits. Therefore to make all things cleere, and better to be evidentioned, I will fet downe the seueral lingues of each several linde.

¹ It cenneth the Thessains whose power was great in Horse, were the first, that vied the kinde of battaile ¹ falhioned in forme of a Rhombe (the inuention where of is attributed to Instant) as fitted for all encounters; The Horseman thus ordered being ready to turne their faces enery way with speede, and not easie to bee surjected in stantant or the Resre. Because the best ment and in the fanke, and the Commanders in the Angles, as namely the Captaine of the troupe in the front, and in the right, and left Angles those, that are called Flanke-commanders, and the Leittenant in the Resre angle.

3 The Soythians, and Thracians have vsed Wedges, and likewise the Macedonians by the ordinance of King Philip. For this kinde of battaile was held of mor exact vse, then the fauer, because the Commanders are placed in a circle; and consisting of a narrow front, it maketh readic passage thorough any distance, and an easier wheeling and returning to the first possure, as having no such troublesome windings about, as hat the Square.

\*The Ferius, and Sicilars, and most Grecius made choice of Squares, being of opinion they were more easie to frame, and siter for ionin-mouing of the Horfe, and more circulail in vie. For they are fooner in order being digested in the control of the state of the st

into files, and rankes, and in this order alone all the Commanders fall upon, and charge the enemie with one maine force. Those are best Squares, that double the number of the length to the number of the depth. As when there are eight in length, and foure in depth, or tenne in length, and five in depth. These in number are of vnequall iides, but in figure foure Square. For the length of a Horse from head to taile compared with his bredth requireth more men in rank, then in file [ to make up the Square ] Some allow thrice as many in length, as in depth, and thinke by that meanes a perfect fquare may be formed : because for the most part, the length of a Horse seemeth thrice as much, as the bredth betwixt his shoulders. Therefore they give nine in front, and three in flanke. For a multitude of Horsemen yeeld not the same advantage behinde, that soote doe, when in the depth of the Battaile they jointly thrust on; in as much as the Horse helpe nothing to the settlednesse of fast resistance, being neither able to thrust those forwards, that are before, nor yet to linke, and knitte with them, and so to make one weight, as it were, of the whole body; and in cafe they presse vpon the formost, by disordering, and distempering their owne Horse, they annoy themselues more, then the enemy. Therefore it alwaies fallethout, that when there are as many Horse in length, as in depth, a Square of number is made, but the fides of the figure are viequall, the depth exceeding the length in proportion: but when the figure of the Troupe is Square, the number of the sides and front, is vnequall.

### Notes.

T Nihe (econd Chapter of this booke, the armie was divided into two kindes, footemen, and Riders. Footemen againe into three armed, Targetieres, and lightarmed. Of these three is bither to treated. Riders follow, who either vsed Hosses, or Elephants. Horse either alone, or elle in Chariots. Of these Ælian treateth seuerally bereafter. For the arming, and place of Horse in the fielde, bee bath sufficiently spoken already. The following discourse is: First, of the manner of embattailing horse ( wherein he setteth downe the diversity of vlage in ancient time ) Then of Chariots and lastly of Elephants. . That a horfe is a kinge of beaft, that loves man, and is most faithfull unto him Pliny tellifieth. The vee of him is for carriage, and for feruice in the field. And in the feruice of the field an armie without horfe, is in a manner no armie. Iphicrates ( as I have (sid before) comparing an armie to a mans body refembleth the horfe to feete. And as the body hath no tower of mouing, or rather removing, the feete being lame, or taken away. So is the armie flow, and unfit for expedition, that is deftitute of horse; and may be well resembled to those beasts, that creepe upon their bellies, whose greatest hast is with little beede. The horfe do great fernice in the field of themselves alone; and are principally imployed in matters that require quicknesse in dispatch. Therefore are they fit for discoueries, either of the enemies country, or of his campe, or of his marche, or of other things, whereof the Generall defires to have notice. And not for discourries alone, but to spoile, and destroy, what soener the enemy hath growing, to make prey of his Cattle, burne his houses, kill bis people, surprise his places of Brength, and to embarre him from doing the like to us; to bring and connar provision for our Campe, to that in the enemie, that he goe not out his campe for I ke causes, to hinder the enemies march by falling on the reare. Briefely all expeditions of celeritie are for the most part delivered to the horse alone. Especially as long as they are in such places, as give them liberty to go on, or retire at their pleasures. Tet are they often ioned with the light trened, as I have shewed. They often ioine likewife with the armed. And if they may come to charge the enemies battailein the a Diod. Sich flinke, or reare, at fuch time, as our armed charge in front, they indanger all. But for lib. 16.512, imployment alone against the armed foote many examples of former times show, how Pol lib 3. weake there force is. And how little they preuail (especially against armed, that are b Hirtuis de practized in fight, and refolute Souldiers ) The examples I have quoted in the margent bell. African. make the matter cleare. For further confirmation I will fet downe X enophons opinion, speed, Cyr. which all be it, it were delivered concerning the Portion horfe, that came against the arm- lib. 3.309. B. ed foote of the Gracians in their return out of Perlia yet the reason stretcheth to all horse Appear in Par. in generall. His words found thus; " If any of you taint in minde ( faid he to the Gre- 164. cians) because we have none, the enemy many horse, let him consider, that ten e Xenoph de thousand horse-men are no more, then ten thousand men. For no man was euer 2,300. B.C. flaine in battaile by byting, or ftroke of a horse: Men they are, that performe, whatfoeuer is done in fight. As for vs (the foote he meaneth ) our mounting is much more firme, and stedfast then theirs. They hange vpon their horse, and are in feare not onely of vs, but to be shaken of and throwne to ground. We contrariewise haue stable footing, and shall be able both with great assurednesse to strik, and direct our aime with more certainty. One advantage the horse-men have, they may more securely runne away. Hitherto X enophon. And so much is sum-

I The Theffalians, whose power was great in hotse ] The Theffalians inha-

marily (poken of the feruice of horfe.

biting about the mountaine Polius were the first, that fought on horse-backe, and were therefore called Centaures. When they watered their horfes in the river Pencus , the horse heades stooping to drinke made the unskilfull multitude, who saw the bodies of men toyned to the shoulders of the horse, conceive, that the upper part was man, and the neither Oxe. For it (bould feeme, horfe were not fo well knowne then, as Oxen, with which they. laboured and plowed their land. The Poets therefore fained, that they were monsters compounded of two diners natures, man and oxe, or bull; and that Centaurus, the beginner of the race was begotten by Ixion opon a cloude, which was figured like luno. Howbest Servius queth a better originall of the name, faying, that certaine fervants of a Theffalian King feeing their mafters Neate, raging with the Brimfe ( a flie that biteth cattell) got a horse backe, and pricking them with goades, reduced them to their stables; and that they were after called Centaures, Para lentein tous taurous, of pricking the neate. The great Etymologican giueth yet an other beginning of the name. For where I have faid that Centaurus was begotten by Ixion wpon a cloude, which was figured like luno, with whom Ixion was in lone : The Etymologican faith, the Sonne of Ixion, and of the cloude was called Centaurus : Apo tou ton patera autou kentein ten auran. But d Diodorus Sicul. reporting the historie of the Centaures, speaketh net d Diod. Sicul. of Centaurus, the father of the race but faith notwithstanding, that they were bred of a cloude, and that the Nymphs brought them vp, and that they were the fitst horsemen, and therefore called Hippocentauri which gaue occasion to the fable, that they had two natures. It is generally agreed, that these Centautes were Theffalians, and that they were the first horsemen, that are mentioned in any bistory. And as exenoph, hift. they were the first, fo by reason of their long practise they were accounted the best, the Grze. lib. 7. most valiant, and the most expert horse-men of all Greece, evento the time of Philip, 644. D. fonne of Amintas King of Macedonia, who conquered all Tessal; (faith ! lustin) not e3. C. of desire to make himselferich of the prey of that Countrey, but to winne to his a Dood. Sical, 18, 17, 272. atmie the ftrength of the Thessalian horsemen. Whose service he vied afterward 8,594. in all his war. Reither did they leffe feruice to his fonne & Alexander, in whofe greatest Plurarch, in battailes their vertue clearelie appeareth, and is especially commended by histories. Byr-heliatan Pyribi

cap. 56.

e Plutarch, in Agefilao. Xenoph Hit. giz: 115 4.

b Enclyd. in.

thus also principally by their valor, put the Romans to flight. Agefilaus returning out of Alia towards his Countrey led his armee through The stalle, and being much incumbred in his march by the The Talian hor femen, that were his evemies, hee charged them and overthren ethem, and pleased himselse marvellously therein because with troupes otherse, which himselfe had raised, and disciplined, hee had overthrowne the Thessalians, that were (sub Xenophon) to highly renowned for horsemanthip. 2 Fashioned and torme of a Rhombe | There are three kindes of horse battailes

mentioned by Alian, the Rhombe, the Wease, and the Sause. And the laure is either a suft, square, or langer in flanke then in front, or in front then in flanke. The Rhombe was the invention of the Theffalians, and in that forme they volully fought. But where be maketh lason to be the inuentor of it, he afterward expoundeth his owne m aning, attributing the invention to Ileon the Thessalian ( from whom also it was tearmed ile ) but the chiefe practife to Iason. Euclyde defineth a Rhombe in this (ort: f A Rhombe is a fquare figure, that hath the fides equall, but the angles not right. That is, the foure fides of the (quare are of one, and the fame length, but the points, which make the angles, are two of them firetched out in greater length, and become more fbarpe. two of them brought warrower together, and made more blunt, then the right angles of a Tetragonall (quare. See the figure. It is the same figure in a battaile, that at this day we call the Diam and battatle, which is (ometimes practifed among st the foste for them, and exercise (ake, but among st the horse I have not seene it practised. And as the fourte goth to charge with all the fouldiers, that stand in one of the sides, that is with the front. ( for the front u but a fide of the fauare) (o the Rhombe chargeth with one of the points. which w the front of the Rhombe. Whether of them is of most we inthe field . I am not to determine. For the square standes the practife of our daies, besides the vsage of the Persians, Sicilians, and most Gracians, as Ælian faith. For the Rhombe the Thessa. lians alone (which not with standing were acknowledged the best horsemen of Greece) unlesse we allow the Wedge for a parcell of the Rhombe , ( a Rhombe being but a double Wedge, as making two wedges, when it is divided in two ) and then have wee for the Rhombe not onely the Scythians, and Thracians (both nations very good Horfemen) but King Philip Amintas fonne, and Alexander the great, and his successours. Either of both formes have their reasons. For the squares they, that we them, held opinion ( as Elian (aith ) that they were essier to frame, and fitter for joint moung of horse, and froner in order of file, and ranke, and that the Commanders wintly charged the enemy. which in no other forme could be done. For the easinesset of rame I see no great difference, onely custome, and ofe must in every forme, yea in the squares themselves make the horseman ready to know, and take, and keepe bu place. The same may be said for the soint mooumo of the horfe. Now to file and rancke is common to the fquare with fome Rhombes and as foone done in the one, as in the other, the number of the troupe being once knowne, and enery horseman having his place assigned, and the forme resolved upon, into the which it must be cast. For wherethere are 4 kinds of Rhombes, one, that fileth, and ranketh; an oth r. that fileth, but ranketh not; the third, that ranketh, but fileth not; the last that neither fleth, nor ranketh ( as Elian teacheth in the next Chapter ) The first will finde no more difficultie, of fi ing, and ranking, then the fquare, the two next albeit the one ranke no , the other file not , yet the want of filing , or ranking hindereth no more the readine le of framing th. m. then the vie of filing, and ranking helpeth the other. The fourth is rather curious then profitable, as I take, neither doe I finds example of it. And it may bee truly affirmed of it, that the fquare is much essier to be fashioned. We shall have occasion to Beake of the last three in due place. Touching the soint falling on of the Commanders. I confesse the advantage is great. For when the best men ( such as the Commanders ought

to be ) altogether fall upon the enemy, they are very like to put hard to them. And as it is a great part of skell to bring many hands to fight, fo is it no leffe. to bring the best hands to fight. Many hands make light worke, the best hands Sure worke. Now for the Rhombe Elian alledgeth thefe reasons. First, that it is fittest for all encounters, because the horsemen are ready to turne their faces enery way with speed. Then, that they cannot be surprised in flanke, or rewe, hautno the best men in their flanks, and the Commanders in every point of the Rhombe. And cannot the square turne faces enery way? They can, but not with the same advantage. For the Rhombe, which way former faces are turned remaineth in the first forme. And whether it be to the right, or left flanke, or to the reare, it keepeeh fill 4 even fides, and the men of most feruice in the fides. Besides that one point alwaies affronteth the enemy. Not unlike a Calthrop, which how soener you cast it to the ground, bath one point bearing right up to wound the horfes feet: But the fquare in turning faces to either flanke altereth the forme of the front. In a broad | quare, the front at the first was longer than the fides, faces being turned to either flanke the fides become longer, than the front; contrariwise in the Herse battaile. Besides in such turning of faces the square leeseth the advantage of embattailing, the Commanders, that flood in the front, flanding now in one of the flanks, and being not able to charge the enemy jointly, ( the greatest advantage of that firme) and fo the front being without Commanders, is subject and in danger of surprife, where the Rhombe, which way foeuer faces turne, hath at many Commanders in the front, as at first. But let vs take the borfe square in full strength with all Commanders in front; whether shall that forme be better, than the Rhombe? I dare not affirme it. For where there are two kindes of fight; One with maine force, the other with fleight, and Art; in the first I will preferre the square, in the last the Rhombe. The square for staughter and violent overthrowing, the Rhombe for piercing and artificiall breaking the enemies battaile, which last among st great Commanders bath alwaies beene accounted the best kinde of winning. In the square all the Commanders fall iointly upon the enemy, and because they are supposed to be the cheste of the Army, in all likelylood they will ouerthrow the formost, and flay many. Yet by reason of the length of their front, they sticke man to man, and can make no farre entrance, and the victorie hangeth doubtfull, till they have staine the most of them, that resist, and so make the rest to flie. The Rhombe contrary wife, being narrow, and pointed in the front, first forceth a passage with the point, which maketh way to the rest that follow, and then without great labour piercing further, and further, breaketh the adverse battaile, or disperseth, and putteth them to flight, and after doth execution at pleasure. Neither can I make a fitter resemblance, then by comparing the 2 figures, one to an axe, the other to a wedge, both instruments vied for dividing folid maffes of wood. For the axe, albeit sharper, than the wedge, yet having the edge drawen out in length, can not by any strength be driven farre into the wood, but by doubling many Aroaks, and by much labour commeth at last to divide it. The wedge contrary-wife, though not fo sharpe, being once entred, insinuateth it selfe more by litle, and litle with the narrownes of the point, and maintayning the hold it first got, at lift forceth it afunder, though it be never fo tough. So is it in the fquare, and Rhombe : whereof the square beginneth, and endeth with violence; the other vieth first cunning, and mildenes, as it were, to enter : being once entred renteth a peeces, and diffarteth all that Standeth in the way. The manner of our times alloweth not of Rhombes; Experience of former times highly prized them. I will insist upon the Thessalians alone, who are accounted the inventers of the Rhombe, or fought alwaies Rhombe-wife. Polybius had Seene their fernice, and beene Generall of the Horse in his owne country, and therefore able to indge. He giveth this censure of them; that in troupes, and being imbattai- Poist. 6.

led, 178.B.C.

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of Elian.

led, they could not be relifted: to fight man to man in fingle combat, they had neither will, nor courage. What then flould be the resson, they should be so powerfull in troupes? Notice, then the forme of their imbattailing, which forme was the Rhombe herementioned by Elian. In this forme they commonly beat the Gracian, and Persian fourres, and gat the reputation of the best horsemen of Europe.

3 The Scythians and Thracians vied the wedge ] The Rhombe is of 4 fides, the wedge but of three : and halfe a Rhombe maketh a wedge, as will be shewed in the next Chapter. The wedge was weed by the Scythians, and Thracians, and whether King Philip of Macedonia borrowed it of them, I am uncertaine. But I rather incline to thinke, that his Theban Master taught him as well the wedge, as other formes of b Diodor Sic battailes. The cause of my contecture is, for that I finde that his o fellow scholer Epa-88. 16. 170. c Xenosh hift, minondas beat the Lacedemonian horse at Mantinæa in that forme. E Xenophon recounteth the (torie to this effect : The enemy (they were the Lacedemonians) ordered Græe lib. 7. their horse like a Phalange of armed in depth, without mingling soote with them : But Evaminondas made a strong wedge of horse also (for before he tells the Theban armed were cast into a wedge ) and ioyned some soone with them, conceiuing after he had cut in peeces the horse, he should not misse of ouercomming the other forces of the enemy. And so going to charge he was not deceived of his hope. Thus Aenophon. Of soyning horse and light armed together, I have spoken before: And that they were light-armed, that Epaminondas toyned to his horfe, " Diodorus Siculus (heweth. By Xenophon then it is plaine, that not onely the Scythians, and Thracians, but the Gracians alfo, when they thought it convenient, vied the horsewedge, and that Epaminondas ordered both foote, and horfe in a wedge. And confidering King Philip was brought up in Epaminendas his Fathers house, and made partaker of the learning wherewith Epaminondas was instituted; it is like in erecting a new military discipline amongst the Macedonians, as he tooke many other things from the Gracians, (o be borrowed this forme, having first seene the notable effect thereof at Mantinea.

Now Elian bringethreasons, why the wedge was holden better than the square. Let me with leane adde a word or two why Itake it to be better than the Rhombe. And first it cannot be denied, that the wedge having the same manner of disposition that the Rhombe hath, that is a front ending in a point, where the Captaine standeth; two points of the two flinks, where the flanke-commander jiands, the Lieutenant in the reare, and the best men in the flanks, but it must be as powerfull to open the enemies battaile, as the Rhombe is. Then it hash this advantage of the Rhombe that it bringeth more hands to fight. For let the Rhombe and wedge be framed of an equal number, the wedge in four eresembling the forepart of the Rhombe must have the horse that should be ranged in the reare of the Rhombe, orderly couched within the 2 fides thereof : where by both the number of the horfe in the fides is increased, and the bulke of the body betwixt flanke and flanke inlarged. And feing both the Rhombe and the wedge goe to the charge with the point of their front, the wedge both hath the property to pierce, and enter the enemies bastaile by art, and fleight as well is the Rhombe, and as thit with more fireneth, because of the great number of hands in the sides, which all come to fight. Toyne, that the hinder part of the Rhombe ferueth onely to avoide surprizes, and worketh nothing in charging. For after the two flanke points are entred, the rest of the Rhombe growing narrower, and narrower toward the Rearc, fallato further off from the enemy, and is content onely to follow the way, that was made to hand by the front and flanks; without being able to livike a livoke; especially if it preserve the order it ought to keepe: whereas all parts of the wedge are effectuall the point to enter the fides even to the flanke corners.

who re the Reare endeth, to dispart and dissert; and finally to disorder the enemy, whereby the victorie ensuch. And if we may rely upon authority, the authority of King Philip will I way much for the wedge. For valeffe he had held it better than the Rhombe, bee would not have chosen, nor accustomed his Macedonians toit, nor Alexander after reteined it, if he had not beene of the same opinion. Neither aid the euent acceive them; for almost in all battailes their borse thus disposed caried away the victorie. But, as 1 before no ed, neither Rhombe, nor wedge baue found grace in the eyes of the great Generalls of our daies, nor can we tell what to infift upon, till experience hath taught, how well these formes will agree with the weapons, and service of our moderne warrs.

The Persians made choice of squares | The square is the third, and last forme of horse-battaile that Elian mentioneth; whereof there are three kinds; one with a larger front, then flanke; an other with a larger flinke then front; the third, with front, and flanke equal. All thefe three were wied among st the Perlians, and Gracians. For two of the first, Xenophon may witnes. When Agelilaus, after Tiffaphernes (the King of Perila's Lieutenant in part of the leffer Alia) had bi oken truce with him, made an incursion into Phrigia, h Xenophon telleth, that the rest of his journey was with- h Xenoph.Hill. out impediment, till he came not farre from Da/cylium. There when his hotle- grac lib. g. men galloped to a hill to discouer the country, by chance the horsemen of Phar- 498.D. nabazus (an other of the King of Persians Lieutenants) being about the same number that the Græcians were, and sent by Pharnabazus vnder the command of Rathynes, and Bancaus his baftard brother, galloped vp the fame hill, and discouering one the other no further of, than two parts of a furlong, at the first they ftood ftill; the Græcians ordered Phalange-wife 4 in depth, the Barbarians making their from 12 in length, the depth many more. Afterward the Barbarians began first to charge, when they can eto hands, all the Gracians that ioyned, broke their states. The Persians having Corneil darts killed some 12 horsemen, and 2 horses. Herevpon the Græcians fled. But when Agesilaus came with the Armie to the reskew, the Barbarians againe for sooke the field. The Persians then Wed a square longer in flanke, then front: The Grecian a square longer in front, then fianke. But which of the three Squares is most to be esteemed Elian sheweth in the words following, saying those squares are best, that

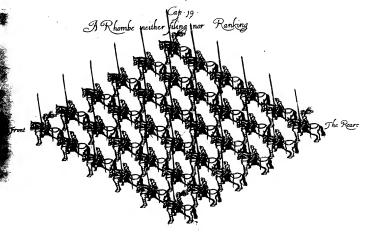
5 Double the number of the length, to the number of the depth ] What the length, and depth in a battaile are, we have seene before. Yet to understand Elian the better, let vs repeat, that the length of a battaile is the extention of the front; the depth the extension of the flanke. To double then the number of the length to the number of the depth, is to place twife formany men in front, as in flanke. As for the purpofe, 6 in front, 3 in flanke; or 8 in front, Ain flanke; or 10 in front, 5 in flanke. And that this was the manner of the Lacedemonians appeareth by the Oulamos, or horse-troupe i Plurachin instituted by Lycurgus, which was figured Tetragonally with 4 equal sides, and con-Lycurge. teined in it 50 horse. Now that it could not be a square of number, that is, to have as many hersein flanke, as in front may hereby beshewed, because no square number will make 50. The nearest is 7 times 7, which amounts to 49. But proportioning the number of the length double to the number of the depth, that is 10 in front, and 5 in flanke, euen 50 will arile. So that the horse troope of the Lacedemonians had the number of the length double to the number of the depth, and made a square in the equality of measure of the fides, not in number, which is the Tetragonall figure, whereof Plutarch feaketh. And where Xenophon (as I have alledged before) reporter's that the hor (emen of Agelilaus were but 4 in depth, it hindereth not this truth. For, as I noted before, the ordinary aray of the Lacedemonians foote was 8 in depth. Tet did Paulanias the Lacedemonian

King cast his men into a deepe Phalange against Thralibulus. Other examples Thane alledged in the same place touching the same matter. Besides this appeareth to be but atumultuous fight either of the parties comming Soddainely in the fight of the other, and coing prefenily to charge, before they could have time to alter the order they then were in. And to fay the horfe troupe of the Lacedemonians ought to have beene but A in depth. it must thereof necessarily follow that they were 12 in length, which yet will come thort of 50: 4 times 12 makes but 48. Indeed Leo holdeth opinion, that in a horfe battaile, the depth ought to be no more than 4. I will fet downe his words as neare, as conveniently I can english them. The depth, faith he, or thicknes, as it was of ancient time limited, is sufficient, if it be of 4 horse in euery troupe; because in horse a greater depth will be idle, and to no purpose. For they cannot, as foote doe with their thicknes, thrust one an other forward from behind; and so the formost, will they, or nill they, are forced to goe against the enemy. And this is done amongst foote. But the horse can not thrust forward those, that are before them, nor the file-leaders that it and in front, be seconded in that kinde by the rest, that stand in depth after the fourth man. For if they be Lancers, the fift ranke cannot reach with their launces to the front. If Archers, they shall be faine to shoot aloft for feare of hurting their companions before; and so their arrowes serue for no vie, after fight is joyned. Therefore is the number of 4 sufficient in depth, as I have laid. This was the opinion of Leo. To which I cannot absolutely affect; whele he badginen & for the front of his troupe, and fo made it of 4 equall fides in figure not in number, as Alian requireth to be done in the best squares. For the reason of launces not reaching to the from in the fift ranke, reacheth not home to the reason of warre. Elian before hath declared, that the pikes of the seventh ranke reach not to the front of the Phalange. Tet no man will thereof inferre, that the Phalange ought to be but 6 deepe. Yea but the foote that come after helpe the formoft, (econding them, and thrusting them on with the weight of their bodies, which the horfe can not doe. This must be granted to be an advantage that foote have about horse in depth. Yet are there other reasons also of giving depth to a Phalange: In the order whereof two confiderations concurre; one of offence, the other of defence. The reaching of pikes or horsemens staues over the front is good for offence, that is to among the commy in the shocke : likewise the thrusting on of those that come behind, serweth with the violence to make them give ground. A reasonable depth is for defence, in as much as it defendeth a Phalange against the indeuour of the enemy to breake it a funder. And us it is a faul: to make it too deepe, fo is it like wife a fault to make it too fallow. Too much depth narroweth the front, and elueth easterneanes to the enemy to incompasse, and oner from it. 1 Too much ballownelle on the contrary fide naketh it weake, and ready to be broken, and diffeuered by the enemy, and gineth a paffage thorough, and meanes not onely to incompasse the front, but at the same instant also to assault it behind, and so otterly to defeat it. So that the reasons of Leo reach not home, as I faid, there being other caules of thickning a horfe troupe besides reaching of Launces to the front, and icint thruling on of the borfe comming behinde. And where Leo Beaketh but of a horfe in depth of a troupe, Polybius faith plainely that being ordered for fight, they had for the most part 8 in depth; Polybius a man which lived in the times, whereof Leo Beaketh, and nad beene Generall of the horfe of the Achans. Befides Leo Gemeth not a little to differ from himselfe. " For in his seventh Chapter, re writeth after this manner: If \$31.8 capita there be many horse (that is above twelve thousand) let the depth be of 10. If but few, let it be no more than 5. In figuares therefore I bold Alians proportion vest, to doable the number of the front, to the number of the flanke; and as the number of the troupe arijeth (for horje troupes are no. alwaies of one number) to inlarge the length of

S. 108. 109.

uncame, cura ...... \_ : orfes heads ......

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but lew, let it be no more than 5. In promote of the finishes, and in the number of the troupe arijeth (for horse troupes are no. similes of one number) to inlarge the length of the troupe arijeth (for horse troupes are no. similes of one number) to inlarge the length of the

is

A Rhombe fuling but not ranking

the

flanke. And first they place the Leader; then one at his right; and an other at the left hand, so distant, that their Horses heads reach vp to his Horses shoulders, as is

6 When there are as many horse in length as in depth ] I noted before in the ninth Chapter, that there were two squares of equal sides, the one of number, the other of figure; which two squares differ in this, that the one maketh unequal sides in the hape of the battaile, the other equal. The first at this day, we call a square of men, the other a square of ground. When the number of the side is equall in length, and depth, it queth but halfe fo much ground in front, as in flanke. Each fouldier, if it be a foote battaile, occupying a foote, and a halfe of ground in front, when he goes b to charge, where in flanke he must have 3 feote. And in a horse troupe 3 foote in front, and double, or (as Some say) treble as much in flanke. And so are the sides unequall. The even length of flanke and front giveth a like ground to both, and maketh the sides of the sigure equall, but the number of the front double to the number of the flanke, whether it be in horse or foote. In foote, because the souldiers in Ranke have but halfe so much distance, as they have in file; In ranke a foote and a balfe, in file three foote. In horse, because the length of the horse is much more, than his breadth, and that length is fully stretched out in flanke, the bredth onely in front.

# Why Rhombes were first brought into vse, and the divers formes of them.

# CHAP. XIX.

H E forme of the Rhombe seemeth to have beene taken up for the necessarie vie thereof. For the Captaine possessing the first place, the next following Earfemen are not to ranke with him, but to come a litle after on both fides; so that the heads of their Horfes may reach to his horfe shoulders, & on the right, & left hand, and behind they ought to keepe good distances that too much thronging and clustering together, breed not diforder, whilest some horses being by nature fullen fall a flinging oftentimes, and foule with other; and confidering the beaft is somewhat long of body, that in turning about he wound not the horsemen, that are in fight, whilest with his beeles he aymeth at the Horses next vnto him.

They that fashion Horse into Rhombes, so fashion them, that some Rhombes file, and ranke; some neither file, nor ranke; other some file, but ranke not; other ranke, but file not : euery particular whereof standeth thus.

They that would have 2 a Rhombe both file and ranke make the greatest ranke being the middlemost of an vneuen number, as of 11, or 13, or 15. To which they ioyne other rankes before, and behind, euery one conteyning two leffethan the former; as if the greatest ranke consist of 15, the next rankes on either side are to have but 13, the next on either fide of these 11. and so every one two lesse, till at last you come to 1. And the whole Treepe is to consist of 113 horse.

3 The halfe Rhombe is called a wedge being fashioned three square; so that the

forme thereof appeareth in the Rhombe.

Other have formed the Rhombe so, that the 4 Horsemen embattailed in that forme, neither file, norranke, conceiuing that turnings and other motions will be more easily performed in this figure, nothing hindering before, behind, or in fanke. And first they place the Leader; then one at his right, and an other at his lest hand, so distant, that their Horses heads reach vp to his Horses shoulders, as

is said before. And the sirstrow they make of an vneuen number (as 11). The Lesder of the Traope standing in the middest, and 5 other being said to him backwardly on either side; so that this Ranke conteineth two tides of the Rhombe. Then the reare-Commander is placed directly befind the Leader, and to him are other joyned forwardly on either side, and the number of every following rank after the sirst, is to be two lesse than the former, and therefore 4 must be added on either side to the reare Commander, and the number of the second ranke be 9. This ranke maketh two sides Parallel to the two former sides of the Rhombe. The third must be 7, and so forward to one. The whole Traope hath in it 36 Horse. 5 Polysius expression and maketh it consists of 4 men.

Other Rhombes there are which of file, but ranke not, and are fashioned thus: They make a sile of any number, the Captaine of the Troope being File-leader, and the Reare-Commanaer the last of the sile. To both the flamkes of this file, they lay two other files, either of them one lesse in number, than the first. These they begin to place, even with the middest of the distances of the first sile on both sides, as if there were 10 in the first sile, the next siles on either side should have 3 peece, and the next after them 8 a peece, and still one lesse in all the rest after-comming files, and so it will fall out, that the Horsemen shall file, but not ranke. This forme is profitable for turning of faces, when need is, from one point of the Rhombe to another. 7 Turning to the right hand is called turning to the fisse. But if a Troope be 8 to ranke, and not to sile, it must be ordered thus: The middle and greatest ranke is to be made of an vneuen number, and the rest of the rankes on both sides, laid enen with the distances of this ranke, as was done in the filing troope. So shall you have a Troope that rankes, but fileth not.

#### Notes.

HE former Chapter bad a generall division of Horse battailes into Rhombes, wedges, and squares; this comprehendes the sundry sigures of Rhombes, and the manner of framing them. Rhombes therefore are of 4 kindes, some filing, and ranking; some filing, not ranking, some filing, not ranking.

1 The heads of the horses reach to the heades of his shoulders] Elian saith, that in a Rhombe the Captaine slandesh first, and the heads of the next horse reachts his horse shoulders. This rule, if it be taken generally, and mean of all Rhombes, will decine vs. if for two kinde of Rhombs aline, there is nothing more true. The Rhombe nither sling, nor ranking, have the followers horses head advanced to the shoulders of them, that sland before. But the Rhombe sling and ranking, and the other ranking not sling, come wholy behind the borse of the Captaine, at the figure slowers, and will appear in the verball description of the Rhombe.

A Rhombe both to file and ranke ] To make a Rhombe both file and ranke, choice must first be had of an exseuen number for the ranke the middest of the Troupe, where the manner is to begin the Rhombe; which number must metite be too great, taste the Troupe grow also too great, not too litle, lest there be in it no strength. Elian giues a 11,13, or 15 for that ranke, and willeth as to begin the frame by placing first the middle ranke, to which the other rankes are to be serned on both sides, the middle men.

again, the middle man of the first ranke in a right line of file, and therest is like fort, every Ranke still decreasing 2 men, till at last in the front, and reare angle you come to one. The figure of this kinde of Rhombe I base placed in the pracedent Chapter; where in the middle ranke is of 11, and the whole troupe of 61, and the horse heads of those that follow reach not to the former borses houlders.

3 The halfe Rhombe is called a wedge I have spoken of wedges before, but nothing of the framing of them. Elian here sheweth how they are framed, when he said, that the forme of them appeareth in the Rhombe, and that the halfe Rhombe is a wedge. For as in a Rhombe filing, and ranking, you begin with placing the middle ranke first, and so proceed adding on both sides ranke to ranke, till you come to one man in the from: So must you proceed in a wedge, saving that to the first, and greatest ranke you ignee the rest on the one fide, abating slut in every ranke 2 men, till you come to the point of the from, where the Captaine standards alone. And this was the ordinarie

horse trouve among st the Macedonians, and is described in the next Chapter.

4 That the horsemen neither file nor ranke | The second kinde of Rhombe secified here by Elian is directly opposite to the first. The first both filed, and ranked, this neither fileth, nor ranketh; and is that kinde, which I noted in the last Chapter, to have more curiofitie, than ofe. For the rest, what is more easie to frame, than they? In which either files, or rankes are laid together; or files alone, or ranks alone. And out of that torning both in the inward parts of the Rhombe, and the outward (that is the flanks) arife, and are without difficulty figured. In this you must first begin with the outsides, and make two front lines, or fides of the Rhombe; and after adde as many to the Rearc. And then when the 4 fides are framed, and have their place, patch up by peece-meale therest of the body within. Wherein if there be not very large distances left betwint horse, and horse, especially enery one being laid head to shoulder to an other, it is not possible to convey fo many horses within the foure sides, as will make up the full Rhombe. And yet make it up as you will, the trouble is more than in the rest of the Rhombes. And for the vie, I see not how it can be greater, than in the rest, what soeuer is alledged for turnings, and other motions. And the more I thinke upon it, the more I am induced to thinke that it was the invention of some Tacticke master (of whom were great plenty among st the Gracians) who feeling that some Rhombes filed, and ranked not; other ranked, but filednot; other both ranked, and filed, and that the two first were opposite the one against the other, would needs bring in a fourth, neither filing, nor ranking, to make an opposition likewife against the third. But because this kinde also is specified by Elian, let vs see how it is to be framed. William for examples lake would have the Troope to consist of 36 horse. To put the fe 26 horse in a forme, that shall neither file nor ranke, we are thus to worke. First, we must begin with the two front sides of the Rhombe, and make them of 11 horse, placing them thus: The Leader and Captaine in the point; next him backwardly on each side a horseman, his horse head reaching to the shoulders of the Captaines horse; then on the outward fide of each of these a Horsemin, and their horses heads must likewise reach to the shoulders of the next horses before. So must you goe on, till you have in like manner bestowed 2 a peece more on each side, still opening the two sides of the Rhombe proportionally. Thus done you have Then are we to fashion the two Reare sides of the Rhombe which Rhombe of 9 horse, placing them after this will be in this forme.

Then are we to sashion the two Reare sides of the Rhombe of 9 horse, placing them after this will be in this forme. portionally. Thus done you have rectly opposite to, & yet looking toward the Captaine; on either side of him for and toward the front 2 Hersemen, their horses shoulders lying even with the head of the Licusenants horse. And after them the other 6; 3 on one side, and 3 on the other in the same proportio. And so have we the other two sides of the Rhombe in this forme. -

toyned to the former make the 4 sides of the Rhombe; in the framing whereof 20 of the 36 horse are bestowed. There remains 16, which are thus to be ordered: Within the khombe we must as reasonable distance place a horseman behand the Catalian in aright line, and in the mainter as before lay 30 bim on each fide. The number will amount to 7, and this is the figure.

Then another hor feman is to be fet at the same distance an ecity before the Lieutenant, and on ech side of him two other toward the spint, — And these 12 horse topined togewheth will be 5 in all, and in this some — there, will sassing out a lesser Rhombe, comprehended within the sides of the sirst. So are 32 horse disposed of. The 4 that are lest are thus to be ordered. In a right line againe after the Captume, and at the former dissance is another horsems to be set: The na. 2 one of the one side, of the other of the order the side of him, their horses heads reaching to his horses shoulders thus. The horseman less muss lips the voide place, standing directly before him, that shood next before the Leute— And this is the true association of the Toopo neither siting, nant thus

mor ranking. I have been the longer in describing it, because the source shall show the solutions of the shoot of the shoulders of the shortes that standers before thim.

Polybius maketh it to confit of 64 men] Elian took the number of 36 lorf lof fam: this Rhombe, Polybius requireth 64. The number is not materiall, sethe forme be observed. If you make it of 64, you are to take 15 horfe for the 2 from sides, and 13 for the 2 reare sides, and so in every ranke withinto diminish 2, as you did in the former.

6 Which file, but rankenot] The third kinde of Rhombe fileth, but ranketh not. It is easte to frame. Take what number of horse you please, and make a file, then lay to the distances betwith horse, and horse of total file on each stanke two other files, each file contensing one lesse in number, than the first. And the heads of the files are to be laid right against the space which is betwite the Captaine, and his soldware, and there of the borse against the other spaces successively. In all the paires of files, that follow, and are laid to the sinks, you m: still dimmiss a horse a piece, till you come to the points, which have but one either of them. And of this abattem; it of one in every sile, but front, and rearre, and slankes grow into points, and make a khombe: As of the euch number in every sile, a square buttaile would arise. See the figure. This was the forme the Thessalians sought

7 Turning to the right hand ] The turnings of hor semen and sootmen to the right, and left hand, are not termed by the same names. And the difference commeth of the dutrifite of weapons caried on the right, or left side. The horsemain his right hand held his stafe, in the left the raines of his bride. The armed-soot in his right hand his pike, on the u Folyendah, left shoulder his Target. Hence was it, thus when the hor seman was commanded "to turne to the right hand, they hid him turne to his staffer; the sooteman to his pike. When to the left hand, they hid the hor small turne to the Kunes, the sooteman to the Target.

8 To ranke, and not to file I This is the lift kinde of Rhombe, and it ranketh, but fileth not. It is made by a contrary way to the former. The filing Rhombe began at the former
print, cire re-point, cire proceeded to the flanks. This beginned at the flanke points, cire
print, cire re-point, cire proceeded to the flanks. This beginned at the flanke points, cire
free ceeleth to the front and reare. First therefore a ranke is to be laid of what number you lift.
Allian would have it of an eneuen number, but it will fall out as well in an even number,
is the figure showeth. To the diffusives of this ranke you must lay a ranks more, one on either
fide, whose number must be embely a specie, than the former ranke. Thus continue laying
ranks ssill it owners the fiven, and rever, and never, paire of ranks diminish one a seece, it
you come to the points, either of which have but one, namely the Captaine, cir the Lieutening,
and the Rhombo will ranke, and not sile.

# The Tacticks

iognediothe former make the 4 sides of the Rhombe; in the framing whereof 20 of the 36 horse are bestowed. There remains 16, which are thus to be ordized: Within the khombe we mult at reasonable distance stace a horse forman behind the Carticle and in the manner as before lay 3 to him on each

inde. The number will amount to 7, and this is the figure

Then another has feman is to be let at the same distance an early before the Leuten and, and
on ech side of hims two other toward the same.

And these is half, and in this sorm:

Then made of hims two other toward the sides of the sirst.

And these is a short end of the sides of the sirst.

Then, will fashion out a lesser which will be 5 in all, and in this sorm:

Then, will fashion out a lesser when the sides of the sirst. So are 3 a horse disposed of. The
former distance is another hars so be set. Then 2, one of the one side of the other of the short side of himsheir horse is heads reaching to his horse is houseders thus.

The horseman less must supply the voide place, slanding directly before him that slood next
before the Leute.

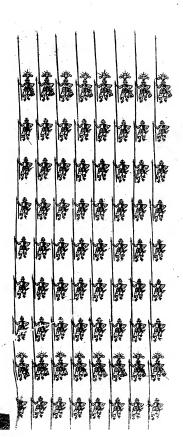
And this is the true description of the Troope neither siling,
nor tanking. I have been the longer in describing it, because
the signer examines not sulfully to my minde, no horse head reaching to the shoulders of the
horse, that slander before him.

Polybius maketh it to confit of 64 men] Alian tooke the number of 36 horfeto frame this Rhombe, Polybius requireth 64. The number is not material, so the forme be observed. If you make it of 64, you are to take 15 horse for the 2-front sides, and 13 for the 2-reare sides, and so in every rawke within to diminish 2, as you did in the tormer.

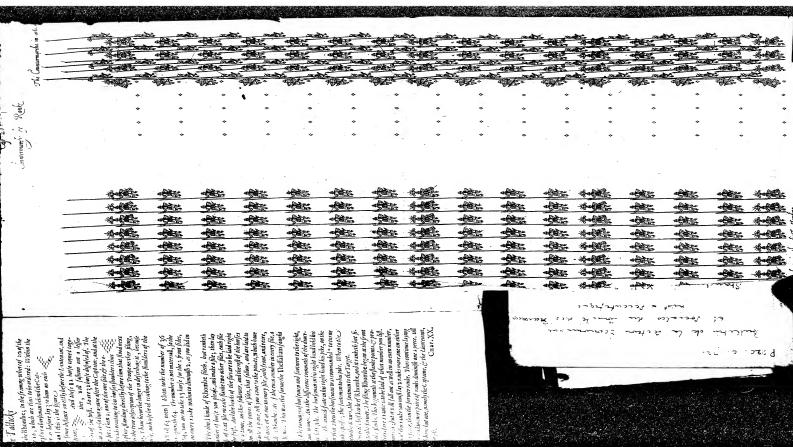
6 Which file, buttankenot] The third kinde of Rhombe fileth, but ranketh not. It is easset or same. Take what number of horse you please, and make a file; then lay to the distances betwith those and the second or the distances betwith those and the second or the files are to be laid right against the space which is betwint the Caytaine, and the soldower, and the rest of be horses against the other spaces successively. In all the paires of files, that follow, and are laid to the strike, you miss sit did minish a horse a peece, till you come to the points, which have but one either of them. And of this abstemn to one incurry site, both from and early site of successively with points, and make a thombe: Its of the euco number in enery site, a square buttaile would arise. See the sigure. This was the formethe Thessalians sought to see the successive the successive the testing.

Turning to the right hand ] The turnings of horsemen and sootmen to the right, and left hand, are not termed by the same names. Anothe difference commeth of the diutrifite of meapons caried on the right, or left side. The horseman in his right hand held his fusse, in the left the raines of his bride. The armed foote in his right hand hele, on the solvendie, left shoulder his Target. Hence was it that when the horseman was commanded "to turne to the right hand, they bid him turne to his staffe; the sootman to his pike. When to the left hand, they bid the horseman turneto the Kunes, the sootman to the Target.

8 To tanke, and not to file] This is the lass kinde of Rhombe, and it ranketh but so let how. It is made by a contrary way to the former. The siling Rhombe began as the front point, ever e-point, ever proceeded to the stanke, it his beginnes at the stanke points, ever ecceded to the front and reave. First therefore a ranke is to be laid of what number you list. Allian would have it of an uneven number, but it will fall out it will not even number, as the spout number for the fourth so will far a ranke more one on either stake, whose number must be one lesses a cocce, than the former ranke. Thus continue laying ranks still towar a the front, and reave, and in carry pairs of ranks diminish one a peece, till you come to the points, either of which have but one, namely the Captaine, with a Lieutenint, and the Rhombe will ranke, and not sile.



The Countermarche in act



some definite on estly before the Leutenant, and

the state of the s

questil 64. The number is not material, fother your areto take 15 borfe for the 2 front sides, non areto take 15 borfe for the 2 front sides, not you did my arry 2 to ke pulning diminish 2, 15 you did m al 64 men | Alan tooke the number quireth 64. The number is not material. 24, 108 M

is the state of th the part of files that follow, and rate has a cere field point, which have a cere fire follow, and retard has a cere fire follower the follower fire follower fire follower fire follower fire follower fire for the fire f The third kinde of Rhombe fileth, une, and the follower, 4

18-tamases bastones and sensors to the eight, so some, an the difference comments of the times of the times. It is not found in the times the time of the times o The farming

there ank community to trans more one on either weet, then the former ranks. Thus continue laying a strong varie of ranks diminify one a perce. We hat one, namely the Captains, or the Leaters of is tell kinde of Rhombe and its inketh fint for the period of the filling Rhombe began at the four fluck, the keyments at the fluck paints of properties to be take of what number you lift. fat it will fall out as well in an enen number, ti sures, the footmento the Target.

front AND THE STATE OF T **游戏的对象的对象的地位的被视线的对象的现象的对象的** 物的物物物物物物物物物物物物物 of a pui ank nui 128 12n bipp of position of the free for the first the firs nd hogy aglar sh WHO THE SHOPE WAS AND ASSESSMENT OF THE PARTY OF THE PART のなるのである。 THE WAY

The ordinary horse troupe

The place of Horsemen in the field, the number of an while hosse troupe, the degrees, and names of the officers of the Horse in general.

#### CHAP. XX.

H : Troopes of Horfe, as the light-atmed, are placed formetime before the Philimpe\_formetime on the right, or left hand in Janke of the Philimpe\_formetime in the light-atmed in the Rears. For our purpole, let them be placed in the Rears. and 'let the first Troope be of of, men, and the first Tranke thereof 15 Horfe The next 13. The next 11; and in all the rest abate 2, till you come to the last Aythich is one.

\* He shall carry the Corner, that standeth in the second ranke next the Rank-Commander on the sleft hand. All the Troopes shall be 4g in number. The horse-men in all 4096. It two Troopes are called an Epitarehy of 128 horse. Two Epitarehies 42 rentinarehy of 396 horse. Two Two Tarentinarehies 32 nt Hipparchies 45 are Epitarehies 42 are Epitarehies 45 are Epitarehies 46 are Epitarehies 47 ar

#### Notes.

In there of squares and Rhombes, vsual horse buttailes amongst the Gracians. Two followeds the horse buttaile of the Macedonians, of which? Elian hath thus afterward: This forme of horse battaile is called a wedge by Taclicks, and it was invented by Philip Kin god, Macedonia, who placed his bestmen before, that by them the weaker might be held in, and inabled to the charge. As in a speer, or smooth be point whereof, by reason of sharpes quickly piercing maketh way for, and letablished them, to make speech somewhat of the wedge in the world stoke peters. Elian in this Chapter showed the immber, and manner of framing it, and how many trouges ought to attent the Phalange, and water whose splices; and degrees.

1. Let the first troupe be of \$6.4 men 1] The number of the wedge engle to be \$6.4 berie. The model beginning of at the Rhombe that ranked, but filled any 1 with a rube of 15 berie. The month of not perfect to part about 1 from, with an other ranke of 13, the middle man, filling with the middle man fit the first rank, and thereft with bereft. And \$6.90 mer to continue abotting fill two in every following ranke, till at lift you come to ons, who is the Communder of the Trapes, and final their his per not the form.

2. He shallcarry the Cornect | The place of the Cornet is not right fet downe in the figure. It is there shaded non-threight-shad of the middle muss of the focusts unker, whereas he should shad on the left. And you must not account the focus is unkertool to riske most test focus on must not no the front is unk as skilled atthe, that was focusingly placed offer the first constituting of 13, which was in the Reare. So that the Cornec is to fland in the most ranks to the K care.

But here is nothing faid concerning the diffusees, that ought to be betwiet for e.m.d.

But here is nothing faid concerning the diffuse, that one bit to be between the 12 Chip. But of the
diffuses between borgs, I find enothing, but general words. The which wanted in

But an, I will flooply out of other suthous. We may contenfant teen, that we have to

fill flaters were objected amongst bus from an one for matching, an other far if the

Kπ

602. A.

o Leo cap. 17

S. 5.

In marching there ought to be 6 foots betweet horse and horse. Elian habbefo e given this distance to the foote. Indithat horse held it likewise appeareth by Polybius. Who reprehending Cal sthenes for carelefnelle in describing the battaile betweet Alexander and Darius at Iffos, fecially taxeth this : That he placed thirty thousand lorfe, and thirty thou (and mere naries, in foureteene furlongs of length. whereas the p ace n Polyb hb. 2. Was not capeable of halfe the horfe. " His words have this fenje; The order of horfe, when they are prepared for fight, is for the most part 8 in depth. And there is a distance to be left in front betwixt every troupe, to give liberty to wheele and double wheele. So that one furlong will conteine 800 horse; and 10 furlongs 8000; 4 furlongs 3200: And eleuen thousand, and two hundred Horsewill fill the space of 14 furlongs in length. The words seeme at first somewhat obfoure, being well weighed they will be cleare enough. Polybius faith, that thefe 800 he fe were ordered 8 in depth, and that they tooke up a furlong of ground in length. There must be therefore of them a hundred files. For a hundred files of Shorle a peece. will arife to 800 horfe. Compare then thefe 100 files, (the length of the battaile) to the length of a furlong. And feing a furlong conteineth 400 Cubits, or fix hundred foote, every file fall have 4 cubits, or 6 foote space betwixt them. And fo the distance betwixt file and file in a march will be a Cubits, or 6 foote. The other distance of three foote appeareth in . Leo, whose words stand thus: Put the case, that the battaile is of 600 horse in length, and 500 in depth, seing that every horse in length of the battuile possesset three foote in breadth, the number of feete will amount to 1800; And seing agains that every horsein depth possesseth 8 foote, there will aufe hereof 4000 feete; fo that in the foure-fided figure, out of the length of 1800, and the depth of 4000 feete arise 720 Myriades of square feete. And the Perimeter alone of the outward foure sides conteineth 11600 seete. And because of feete make a fathome, and a 100 fathoms make a furlong, and 7 furlongs, and a halfe, make a mile, the whole Perimeter of 11600 feete will come to two mile, and a halfe, and neare a 10th part. In this distance therefore according to the closest order, or shutting, the thirty thousand horse are conteined. But if they fland not so close, you must alter your account according to the thinnesse, and out of the greatnesse of place coniecture of the multitude of the people. So Leo. Which place albeit it seeme to require a large interpretation, because many things worth the noting offer themselve: in it; yet for this time I will onely insist upon that, which I first propounded, that is the distance of three foote betweet horse, and horse, when they goe to charge ( for that is the meaning of Leo, when he speaketh of the closest order ) which distance is expresty here set downe. And the matter will yet feeme more cleare, if we adde the words of Leo in the Paragraph next, but one, to this, which are these: The oldest Tacticks in ordering of foote Battailes give euery man at the first distance foure Cubits; when the battaile is closed two Cubits; when ferred and shut one Cubit. Out of which proportion a Scout may exactly discouer by the quantitie of the place the number, not onely of horse, but of foote also. These oldest Tacticks that Leo mentioneth agree with Alian , as wee have feene. But where the foote have three distances , the horse are to have but two. The open order of fix foote they ought to have, and likewife that of three foote; nearerer they cannot come together, because of the bredth of their horse, and because they are to have roome sufficient for the weilding of their

> All the Troupes are to be in number 64 \ A Troupe consists of 64 men, and to the Phalange belong 64 Troupes, as the Phalange conteineth 64 Enfignes, or Syn

taoma's of armed foote. To which Enfignes the 64 Troupes of horfe are proportioned. Their place is according to Elian after the light-armed; not on troupe after, or behind an other, but one befide an other, in one front; and that front in a right line, which stretcheth out, as long as the Phalange of armed it felfe. Now the files of the armed being 1024 in number, and the number of the horse in the last ranke (which conteneth the length of the Horse-battaile, and (hould answer the number of files) but 960, we must feeke out a proportion to make the length of both equall one to another. The difference then betwixt them in length is 64 men, which in order take up 192 foote. And where there goe foure Phaiangarchies to a fourefold Phalange, and 16 troupes of horse are placed behind enery Phalangarchie, we must divide these 192 foote into foure parts; every of which parts will amount to 48 foote, and give to each troupe three foote distance one betwist an other (for distances betwint one troupe, and an other, Polybius holdeth necessary) and to the 16 troupes of horfe take up as much ground in length as a Phalangarchie. The one conteining 2.56 files in length which occupy 768 foote of ground, and the other 240 men in the last ranke, which occupy 720 foote. To which adding 48 foote of distance, there ariseth the even number of 768. And so shall the 64 troupes of horse be even in length with the fourefold Phalange.

The names of the Offices, and Commands of the Horse follow, wherein as I before noted in the foote, we must not presente on neare the property of words, but take them, as

they have beene vied among Souldiers.

Two troupes are called an Epilarchie ] One troupe is called Ile, and the Commander an o llarch; for so he is termed before in Elian. Two troupes an Epilarchie. o Cap. 18. and the Commander an Epilarch, as it were a Commander oner two Iles, troupes. He bath 128 Horse onder his command.

4 A Tarentinarchie ] Of Tarentines mention is made in the second Chapter. The name of a Tarentinarchie is not given to this Troupe, because it consisted of Tarentines, but because of likelyhood the Tarentine horsemen had so many in a troupe. Let it be, as it will, it fignifieth here a troupe of 256 Horse.

An Hipparchie ] Properly fignifieth the command of horse, and Xenophon weththe word Hipparch for the Generall of horfe; but Elian, and the Tacticks we it for the command of 512 horse.

6 An Ephipparchie ] As it were a command ouer two Hipparchies, or ouer

1024 borfe.

A Telos The name of Telos is given both to a body of horse, and to a body of foote. A Merarchie was called by (ome Telos (faith Elian before) and conteined 2048 armed. The Telos of horse conteineth 2048 horse. So the bodies are equal in number. The word sometimes signifieth a Command, or Dignitie, from which Signification this body, as feemeth, hath the name.

8 Epitagma] The whole body of light-armed was called an Epitagma, which name is given likewife to the whole body of horfe comprizing 4096 horfe. It may be they are both so called, because they are placed behind the Armed, as I noted before. For that

place Elian assigneth unto them.

CHAP. XXI.

K 3

7.

The deligence to be veed in choice, and exercise of the best formes of Battailes.

CHAP. XXI.

H & Inventions and conceits of those, that lived in old time, about Troopes of Horse are declared, in what forme every one was cast, and for what cause some vsed one forme, some another. Now it behoueth (as in things that carry with them great difference) not carelesly, and negligently, to rely vpon the bare precepts; but rather by daily exercise to make tryall of every kinde offigure, and so attayning to the perfect knowledge of that, which is readiest, and of most advantage, to admit and receive it in true fight. For it were great simplicitie, considering in matters of lesse importance men by curious inquiry reach to the exact finding out of many things, herein not to ground vpon perfect and fure experience, before we come to ioyne with the enemy.

Troopes may be inlarged or leffened, as it shall seeme convenient to him, that hath the command.

> Of Chariots; the names, and degrees of the Commanders.

> > CHAP. XXII.

Sfor ordering Chariets and Elephants, albeit they are worne out of vie, yet A to make up the measure of this discourse, I will remember their names, as they are fet downe in ancient writers. In the Art of ordering Chariots for the field they call two Chariots a ' Zygarchy; Two Zygarchies a ' Zyzygi; Two Zyzygies an 3 Epyzyzygi; Two Epizyzygies an 4 Hartamarchy; Two Hartamarchies a 5 wing; Two wings 2 6 Phalange.

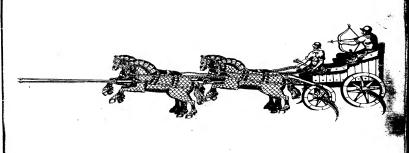
A man may vie many and fundry Phalanges of Chariots, and yet retaine the fame names in every Phalange. Some have framed simple Chariots to serve withall: other some have armed them with Sithes prominent and standing out on

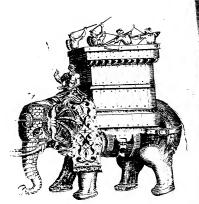
each fide.

Notes.

Here were two kinde of Chariots veed of ancient time, the one a simple Chariot, the other a Chariot armed with lithes. The first kinde was wfed by the Heroes (as they terme them, that is the renowned Souldiers of old, such as were Achilles, Hector. Cycnus, Eneas, Tumus) as appeareth by Homer, Virgil, Ovid, and other Poets. The last was brought in by the Generalls of later times, especially by those that raigned in m Lividecad. Afia, and in Africa. For the " Europeans have counted them fruitleffe, and vaine mockeries, and amonest them you shall hardly finde any mention of Charlots. Elian toucheth them onely, because both they, and Elephants were in his time growne out of wee. Wherefore I meane likewife to paffe them over fleightly onely directing the Reader that is destrous to understand their manner of fight to places of Historie, where they are mentioned. And first fee for their

Forme.





Form:. Xenoph. Cyrop.lib.6. 152. D. E.& 156. B.C. de exped. Cyr.lib. 1.264 A.B. Liu. decad. 4.lib.7.142. A. Diodor. Sicul. lib.17.596. Quin. Curt. lib.4.119 S.lib. 8. 271.

Their violence, Diod. Sicul. lib. 17. 593.

Their place in the battaile, Xenoph, Cyrop. lib. 6. 168. C. D. Liu. decad. 4. lib. 7. 143. A. Diod. Sicul. lib. 1. 4.408.
Remedies against them, Diodor. Sicul. lib. 17. 592. 593. Xenoph. de exped. Cyr.

lib.1.265. Liu.decad.4.142. Quint. Curt.lib.4.141. Plutarch.in Sylla.

I come to the names of the Commands of Chariots.

T A Zygarchie ] The command of two Chariets; as it were a yoake of Chariets.

2 A Syzygy ] The command ouer two yoakes, as it were, of Chariets igned tope-

ther : that is over 4 Chariots.

3 An Epifyzygy ] The command over four eyeakes of Chariots, that is over eight Chariots.

4 An Harmatarchie ] Properly the command of Chariots. But vied by Ælian

for the command of 16 Chariots.

5 A wing As foote, so Chariots, and Elephants, had their wings of bettaile. To the wing went 32 Chariots. Tet finde I this order of imbattailing Chariots no whose, but in Eian. He that will, let him read the place, that thous noted before, for the ordering of Chariots. Notwithstanding I can not doubt, that the names gruen here by Elian, are taken out of awdient writers.

6 A Phalange I teoplished of 64 Chariots 2 and wee here see, that Chariots also

had their Phalanges, as well as foote, and Horse.

# Of Elephants; the names, and degrees of their Commanders.

#### CHAP. XXIII.

Ouching Elephants, he that is Commander of one Elephant is called 'Zoarcha; Of two 'Therarcha, and the body a Therarchy, Of foure 3 Epitherarcha, and the body an Epitherarchy, Of 16 'E-lephantarcha and the body an Elephantarchy; Of 16 'E-lephantarcha and the body an Elephantarchy; Of 32 'Kenatarcha, and the body a Kenatarchy. That which conflicted of 64 wee call 7 a Phalange of Elephants, as if a man should name the Commander of both the wings Thalangercha.

#### Notes.

The wie of Elephanis was greater amongst the people of Asia and Africa. Those of Europe effectmed them not much. And yet we finde, that they were brought into the field by the Romans also; who first saw Elephanis in Italy in the warres, they had against King Pyrthus. \* The Indian Elephanis was preferred before the African for greatnesse lib. 7. 141. of body, strength, and courage. Many things are written concerning the service of Elepolyhib. 5. phanis. But because Elian toucheth momers, then the names of the bodies, and thee desay. C.D. grees of Commanders, I will only note such things, as I finde concerning them in Histories. Their kinde of armor, and summure I have taken out of Liuy, and expressed them as neere, as I could in figure.

m Lividecad. 1 4.lib.7.141.B.

For

# The Taclicks

For their p: wer, strength, and manner of fight, see Diodor. Sicul. lib.17.609. & lib. 19. 717. Polyb. lib. 1.,5.D. &l.b. 5.425. C.

Their place in battaile, Diodor. Sicullib. 17.685. Arrian. l.b. 5.111. Liu. decad. 4.lib. 7.141.B. Appian.in Syriac. 107. Polyb.l. 1.34. D.

The distance one from an other. Arrian.lib.5.111.

Light armed in the distances between Elephant and Elephant, Diodor. Sicul. lib. . 7. 609. & lib. 18.635. & lib 19.685. & 716. Plurarch. in Pyrrho.

Remedies ag sinft Elephanes, Diodor. Sicul.lib.18.665. & lib.19.717. Polyb.l. 1.

42 A. Hirt. de bell. African. 416. Liu.dccad. 3.lib.7.194. C. Inauenised before the impropriette of names given to militarie bodies as well in the armed and the light armed foote, as in horfe troupes, and in Charlots. That defect is no leffe in Elephanis. The Commanders and commands of them having names , which were at first large, and improper enough, but afterward made good by wie, and received by the Tacticks as significant to expresse the things, for which they were invented. The first is given to him that is to command one Elephant. Who is called

I Zoarchos ] The Commander of a living creature, that is of one Elephant. The next is

2 Therarchos ] A Commander of Beafts: which name is apprepriated to him, that commandethewo Elephants, and the body it selfe is named a Therarchie.

3 An Epitherarcha ] Hauing the authoritie ouer the Therarchie and the body is called an Epitherarchie comprizing foure Elephants.

4 An llarch ] As it were the Commander of a troupezand the body is called an Ilarchie. He is commonly applied to horfe, and signifieth a horse troupe, and llarchathe Captaine. But here Harcha signifieth the Commander of & Elephants.

5 An Elephantarch ] A Commander of Elephants ; as though the other bodies before mentioned were not of Elephants. Such straights are men often times driven onto in deuising new names for new things, which votwithstanding passe afterward and growe familiar by vie. Elephantarcha commandesh 16 Elephanis, and the command is called an Elephantarchie.

6 A Keratarch ] The Commander of a wing, the body a Keratarchie, basing in

it 32 Elephanis. A wing of Chariots had as many.

7 A Phalange ] This is the greatest body and consisteth of 64 Elephants. But as Chariots may be ordered into many Phalanges, and yet the fame names retained in every one of the Phalanges, foit is in Elephants. For that armies have bad in them at once ac Polyb.lib 1. boue 64 Elephants appeareth by Histories. Polybius, and Diodor Sicul: testifie, c the first that the Carthagineans, a the last that King Porus against Alexander had the one 29. B. d Diod. Sku 140, the other 130 Elephants in their armies . The same Polybius faith that Ptolomey e Polyb. 16.5. had against Antiochus 73 E'ephants in his armie, and Antiochus 102. And Plutarch reporteth that Androcottus, King of a part of India, gaue to Seleucus at on time 500 f Plutarch, in Alexand.

> The names of military motions expressed in this booke.

> > CHAP. XXIV.

Hus haue we fet downe in particular the kindes of perfect Forces together with the severall names of every body; Which being premised, it seemeth Kaabole or Faces turned duns o to the note Sand

Class or one Turning of Jaces to the

TSc first standing

fit to deliuer the words of exercife, that when the Commander, shall will any thing to be done, the Souldier in daily experience acquainted before with the fignification of enery of them, and with the mooning in each figure may easily performe and execute, what our is commanded.

There is a motion called Clifis whereofone kinde is to the Pike, the other to the Target; Another is called Metabole; another Epiffrophe; a motter Anaifrophe; another Perifisimu; another Eerifisimu; belides we lay to file; to ranke; to returne to the fift pollure; to countermarch; to double. Likewile we vie the words Induction; and Deduction to the right, or left hand; a broad-Phalange; a dependance; and whene-fronted Phalange; and Parembole; and Protaxis; and Epitaxis and Profaxis. The fignification of which words I will thortly deliuer. And yet I amnot ignorant, that the precepts of warre are not by all Tatlicks expressed in the same tearmes.

#### Notes.

Elian in the Chapters precedent, hath numbred up alk kindes of forces, as well force, as Horfe, and Chariots, and Elephants, that in ancient time were accounted nec. [Arie for warre. And hath juen them their armor, and furniture, and diffinguished them into militarie bodies, and simbattailed them, and taught the difficures, that they ought to hold in fight. It followeth new that the fleake of motions military; which are the life of an armie, and onely give meanes of victorie; and without which all preparation of forces is vaine, and availeth nothing in the field, nor to the end, for which they were leaved. This Chapter them conteined the names of those motions; the following Chapters the particular explication of them. To which we will note, what we finde in ancient writers. For the lightly interesting the words, I referre them to the severall Chapters, where they are expounded.

Of turning, and double turning the Souldiers faces, as they standenbattailed.

### CHAP. XXV.

Liss or turning of the face, is the particular motion of euery Souldier declining his face either to his Pike, that is to the right hand, or to his Target, that is to the left hand. The vice of it is, when the enemie the weth himselfe in flanke to be concompassed our winges, or else to charge vs: or for some other cause, whereof I will speake in convenient place. 3 Two turnings of the face towards the same lide transferre the sight of the Souldier to the reare of the battaile. And this kinde of motion is called Metabole: being also vice detert to the Pike, or to the Target. In the sinft standing the mouing of the Souldiers face toward the Pike is called Cliss, the second mouing the same way Metabole. For Metabole is the conversion of every mans face particularly to the place, which was betinde his backe. And the same that Metabole is in ech several Souldier, the same is Perispasses, or wheeling about in the whole battaile. There are \* two kinds of Metabole, the one from the enemie, the other to the enemie. Metabole is defined to be a changing of every mans face in particular from the front to the

The Front

of Ælian.

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Feare ; or contrarivise. Turning about from the enemie is, when the Souldier Furneth his face twice towards the Pike; To the enemy, when hee turneth twice towards the Target.

#### Notes.

Our ekinde of Metions are set downe by Æliaa whereby woon any occasion the bat-taile may be som what changed: Turning of faces, countermarch, wheeling, and doubling, whereof the first may be wied, in what order focuer your battaile standeth the fecond onely in open order, the third in close order only, the fourth either in close, or o. pen order. Clifis, or turning of faces, whereof this Chapter intreateth, albeit it may bee brought in also in open Order ; Tes is it not don for the most part but in close order ; and then effecially, when none of the other motions have place. The Gracians alwais coneted tobring their file Leaders, that is their best men , to fight. In open Order they chose to countermarch; In close Order, having place, to wheele their battaile about, and so turne the face of it against the enemy. If they could doe neither of these, they came to the last remedy, which was turning of faces of every particular manin the bastaile.

Clifis, or turning of faces ] This motion is of lesse paines then any other, but of no lesse importance, or necessitie. In the rest the Phalange changeth the place, or the forme: In this it holdesh both, and yet is ready for any attempt of the enemy. Onely every Souldier in particular turneth his countenance to the right or left hand, as he is commanded. To turne his faceto the Pike is to turne to the right hand, because that hand bore the pike, to turne to the Target is to turne to the left hand ; because the Macedonians caried their targets on their left (boulder. For the vie of this turning of Faces, Ælian faith, It

hath place when the enemie sheweth himselfe in flanke

2 To incompasse, our wings ] Clisis is no more, then bearing faces to the right, or left hand, that is to our wings. When then we finde our enemies, to incompasse our right wing, wee turne our faces, and weapons that way to receive him : to the left, when he com. meth to charge us on that fide. If on both fides, then turne wee the faces of our Phalange balfe to the right , halfe to the left hand ; which is the Antistomus Phalange whereof Ælian Speaketh hereafter. Briefely, there is almost none of the marchine Phalanges which are afterward discribed but it hathneede of this motion. Besides if upon any occasion the Phalange be to move from any of the flanks, you are only to command Turning a Polvenlib 4. of faces to that flanke, and then to lead on. I will give an example, or two. Alexander at Arbela having imbattailed his armie to fight with Darius, had intelligence, that Darius had strowed the ground betwixt the two armies with Calthropes. He commanded therefore the right wing, which himselfe led, to turne faces to the right hand, and follow him, to the end to go round about, and avoide the places, that were fowed with Calthropes. Darius marching against him to the left hand, difioyned his troupes of horse, and Alexander taking the advantage, and giving in quickly betwixt the spaces, put Darius to flight. If Alexander had marched on with the right front, he had fallen upon the Calthropes. To avoide them, he wied the benefit of this motion, and turning faces to the right hand he led on , wntill hee hadpaffed the danger, and then turning againe to the first posture, went to charge, and defeated the enemie. b Polyblib 11. An other example is in b Polybius, who describing the battaile betwixt Machanidas the Lacedemonian Tyrant, and Philopæmen the Achaan Generall, telleth, that Machanidas having in the left wing put the Achean mercenaries to flight, followed hard the chase. Philopamen as long, as there was hope, indeuoured by all meanes to flay his men: when he saw them vtterly defeated, hee hasted to the

right wing, and perceiuing the enemie buile in chafe, and the place voide, where the fight had beene, commanding the first Merarchies to turne their faces to the right hand, hee led them on with nigh speede, not yet breaking the order of their imbattailing. And quickly leazing vpon the forfaken ground, hee both cut betwist them, that gaue chase, and home, and withall got the advantage of the upper ground against the left wing of the armed. Whereby hee obteined the victory. If Philopoemen had in this action wfed wheeling of his battaile, which onely was the other motion, which would have ferued his turne, besides the troublesomenesse of the winding about, he should have beene forced to have vsed two wheelings, and so failed of the clerity, which was at that time requisite. Faces were turned in a trice, and he made himfelfe Master of the ground, hee desired, before hee could have wheeled once his battaile.

Two turnings of the Souldiers face | Clifis, or turning faces to the right, or left hand, consisteth of one turning and moueth no further, then the side. If the motion betothe reare, it hath two turnings, and is called Metabole, which is defined to bee a changing of every mans face in particular from the front to the reare, or contrariwile. And as wheeling of the whole body carieth about the fronts of the battaile to the reare; So doth Metabole turne the face of every particular Souldier, and maketh him looke from the front to there are. The word properly fignifieth a change, which happeneth herein, when the fouldiers are changed from the front to thereare, or contrariwife. The we of Metabole is principally to refift the enemy that gives on wpon the reare. \* So Pyr- a Plut in Pyrth. thus being entred the Citie Argos with a few , and overpressed with multitude, retired by little and little, and defended himselfe, often turning his and his souldiers faces against the enemy, b So the armse of Cyrus the elder retiring from the walles of Babylon, exchaption, ib. 7, 180, often turned about their faces to the left hand, and waited their enemie, who D. were reported to be on foote, and ready to come and charge them. And if the enemy affault both the front, and reare, it hath beene the manner to continue halfe the fouldiers in each file with their faces to the front, and command the other halfe to turne their faces to the reare against the enemie behind. And this forme is called Phalanx Amphiltomos discribed by Elian cap. 38. And sometimes it is weed to speed our march, and preuent the enemie, as was faid before of Clifis. Agefilaus made an incurlion into b Polyenlib.in the Territory of the Thebans, and finding a Trench, and Ramper cast up by the Agefino. Thebanes for defence of their Countrey, and onely two narrow waies betwixt, he cast his armie into a hollow Plinthium, or square, and led it against the left hand passage, whither all the Thebans flocked for defence. But heeturning about faces from the reare, hasted away, and gained the other passage, whereno man was present to resist, and entring (poiled the Country; and returned without impenchment.

4 There are two kinds of Metaboles | Before were rehearfed two kinds of turnings of faces about, one to the pike, the other to the target, here is added two more, one from the enemy and the other against the enemie; which are all one indeed, and differ onely in name. What the true meaning of these turnings should be, I am in doubt, Elian expounding them one way, Suidas another. Elian eleemes them by the right, and left hand, Suidas, albeit he have that signification also, esteemeth them by the front and reare. Therefore Suidas defines the turning from the enemie to bee a turning about, toward the reare : that against the enemie, a turning about toward the front. Ælian would have the first to containe two turnings toward the right hand, the second two. turnings toward the left. I for my part Ment rather to Alian. For touching the turnings of Suidas, I cannot yet understand, why turning toward the reare should be a turning from the enemie; Or toward the front a turning to the enemie : Confidering that whether

5 17.

of Ælian.

whether foeuer you turne taces, the enemie is imagined to be there; faces and weapons being tokee opposed alwaies against the enimie, which is the onely end of turning. Alians opinion leemeth to have more probability in it, at least if I conceive the right reason. For I take it thus: That feeing the Gracians (as the Romans likewife ) were Targetieres, and caried their targets on their left side, and in fight advanced that side alwaies neerest the enemie, which they lought to couer with their targets, that therefore the turning about to the enemy, was called turning to the Target; as contrarily turning to the right fide. on which fide the Pike was caried, and which being naked of Juch defensive armes was called a Laus aperis. a the open side, and therefore further removed from the enemy, might for the same cause be tearmed turning from the enemy. So that Itake turning about to the enemy, and turning about to the target to be all one, as also turning about from the enemy, and turning about to the Pike, how loeuer the name differ. This is my coniecture, which I fall imagine to be true, till I finde some man, that will bee pleased to give me a more probable reafon : I only adde now the words of command in this motion.

Faces to the right hand. Faces to the eft hand. As you were. Faces about, to the right or left hand. The figure fleweth the manner.

of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

#### CHAP. XXVI.

2 T Pistrophe ( or wheeling ) is when the battaile being so closed, that no man L' can turne, or twice turne his face by reason of the neerenesse of man to man, it wholy, and jointly wheeleth (as a ship, or some other body caried about) the order thereof remaining vndiffolued. When the wheeling is to the Pike, we warne the right-corner-file-leader to stand still ( as it were the hooke of a doore hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target ; It may be thus defined : Epistrophe is, when shutting the battaile by gathering close the Followers, and Side-men, we turne it wholy (as the body of a man) toward the Pike, or Target, it being caried about the corner-file-leader, as about a Center, and, changing the place of the front, transferre the countenance of the fouldier to the right, or left hand; the followers and fidemen enery one remayning in file and ranke as before. How it is to be done I will shew hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it beganne to wheele. Perifialmos, or wheeling about, is the motion of the battaile in two wheelings, fo that thereby the front commeth to the place of the rearc. 2 Esperiffa mos, or treble wheeling, is the motion of the battaile in three wheelings, io as, when it turneth to the Pike, the front commeth about to the left flanke; when to the Target, it commeth about to the right flanke.

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#### Notes.

This Chipter hath a diners kinde of turning from the other mentioned in the last Chapur, which for distinction sake, is called Epistrophe, or wheeling. The other turned no more, then the fouldiers faces, enery man yet keeping the fame ground; he had before. This wheeles the whole body, and changeth the place of the Phalange either to the right, or left band, or to the reare. And as there was in the turning of tages a particular motion of every particular fouldier to the right, or left hand, called Chiss and an other turning about called Mctabole : fo is there in this a generall wheeling of the whole body to the right, or left hand, called Epistrophe, and an other wheeling about to the reare called Perilpalmos. But let us heare the description.

Epistrophe (or wheeling) is, when the Battaile | Shortly Epistrophe is no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still then all the rest keeping their files and rankes closed, to turne to the same hand wintly about the Corner-fie-leader circle wife, who is to move by little, and little, till he have turned his face to that fide, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the (ame hand, they are to stand still: The words of the definition of Epistrophe (or whiching) are plaine enough in Alian ; Incede vieno exposition. Now because in exercise we relie not upon one forme of motion alone, but acquaint our fouldiers with all the kindes; It is necessarie to bring the body againe to the first place, to the end we may proceede in the reft. This reducing to the first Posture is called Anastrophe, by which the battaile returneth, but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee hall fee hereafter how it is done. To bring the battaile to have the front, where the reare was, you must vie a double wheeling. And that is called Perispalmos. Which commeth of two Epistrophes, and is made either to the right, or left hand. Onely it must bee obferued, that if the Perispasmos ( or wheeling about ) be to the right hand, the Anastrophe (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Ecperispasmos ] I could never hitherto conceine any wse of a treble whee ing (for so Elian takes the word ) vniesse a Perispalmos were first made, and the battale had the front already brought to the reare, and (o an Epistrophe added from the reare to the Same hand. Otherwise seeing that one wheeling is sooner made, then two, and therefore Sooner then three, I fee no neede of three wheelings, effecially seeing we may doe that, wee desire with one. For example, let vs wheele our battail: thrice to the right hand, the front will come to be in the place of the left flinke. The same will be performed as well with one wh eling to the left hand. Et frustra fit per plura, quod potest fier i per pauciora, especially in master of warre, where the least moment of time often carreth the whole bufineffe. The like may be faid of t operifpalmos to the left hand.

The vie of the motions of wheeling, and double wheeling, is, when the battaile b.ing closed, and the entmy comming to affault you in any other one place, then the front , you Seeke to bring the best mento fight. For if you be to be charged in two places at once, or more, wheeling helpes little sexcept it be to turne the front to one enemy, and in that cafe your onely hiftis, to turne faces against them, that come to charge, on what side soeuer they come. Examples of these two motions, I meane Epistrophe, and Perispasmos meete Vs almost in every Greeke Historie. Of which I will represent one, or two, especially of the whether seemer you turne taces, the enemie is imagined to be there is faces and weapens being to bee opposed alwaies against the enemie, which is the oneigend of turning. Hians opinion seemed to have more probability in it, at least if I concincion the right presson. For I take it thus I that seeing the Græcians (as the Romans tikewise) were Targetieres, and caried their targets on their less side, and in sight advanced that side alwaies neergs the enemie, which they sought to couer with their targets, that therefore the turning about to the enemy, was called turning to the Target; as contrarily turning to the right side, on which side the Pike was caried, and which being naked of such dessentiens was called at the open side, and therefore further removed from the enemy, might for the same cause betearmed turning from the enemy. So that I take turning about to the enemy, and turning about to the turget to be all one, as also turning about to me to enemy, and turning about to the truget to be all one, as also turning about from the enemy, and turning about to the Pike, how some the name differ. This is my consecture, which I shall imagine to be true, till sind some man, that will be pleased to give me a more probable reason: I only adden our between so command in the motion.

Faces to the right hand.
Faces to the left hand.
Faces to be left hand.
The figure shout, to the right or left hand.
The figure showeth the manner.

Of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

# CHAP. XXVI.

\*Epifrophe( or wheeling ) is when the battaile being fo clofed, that noman can turne, or twice turne his face by reason of the necrenesse of man to man, it wholy, and ionity wheeleth (as a ship, or some other body caried about) the order thereof remaining vndissoluted. When the wheeling is to the Pike, we warne the right-corner-file-leader to stand full (as it were the hooke of a doore hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target 3 it may be thus defined: Epifrophe is, when shutting the battaile by gathering close the Followers, and Side-men, we turne it wholy (as the body of a man) toward the Pike, or Target, it being caried about the corner-file-leader, as about a Center, and, changing the place of the front, transferre the countenance of the souldier to the right, or left hand 5 the followers and sidemen every one remayning in sile and ranke as before. How it is to be done I will show hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it begannet to wheele. Perispass, or wheeling about, is the motion of the battaile in two wheelings, so that thereby the front commeth to the place of the reare. \*\* Experispass, or treble wheeling, is the motion of the battaile in three wheelings, so as, when it turneth to the Pike, the front commeth about to the left slanke; when to the Target, it commeth about to the right slanke.

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This Chipter hath a diners kinde of turning from the other mentioned in the last Chapter, which for distinction (ake, is called Epistrophe, or wheeling. The other turned no more, then the fundiars face, earry man yet keeping the same ground, he had before. This wheeles the whole body, and changeth the place of the Phalange either to the right, or left hand, or to the reare. And as there was in the turning of tages aparticular motion of every particular fouldier to the right, or left hand, called Clips, and an other turning about called Metabole: so is there in this a generall wheeling of the whole body to the right, or left hand, called Epistrophe, and an other wheeling about to the reare called Petissianos. But let us heare the description.

Epistrophe (or wheeling) is, when the Battaile ] Shortly Epistrophe is no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still, then all the rest keeping their files and rankes closed, to turne to the same hand wintly about the Corner-fie-leader circle wife, who is to moue by little, and little, till he have turned his face to that fide, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the (ame hand, they are to stand still: The words of the definition of Epistrophe (or whieling) are plaine enough in Alian , I neede ve eno exposition. Now because in exercise we relie not voon one forme of motion alone, but acquaint our fouldiers with all the kindes; It is necessarie to bring the body againe to the first place, to the end we may proceede in the reft. This reducing to the first Posture is called Anastrophe, by which the battaile returneth, but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee hall see hereafter how it is done. To bring the battaile to have the front, where the reare was, you must vie a double wheeling. And that is called Perispalmos. Which commeth of two Epistrophes, and is made either to the right, or left hand. Onely it must be ob-Served, that if the Perispasmos ( or wheeling about ) be to the right hand, the Anastrophe (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Experishations] I could never hither to conceive any who of a treble wheeing (for fo Elian takes the word) wheeles Perishatinos were first mide, and the battaile had the front already brought to the rane, and so an Epistrophe aided from the reares to the same hand. Other wife feeing that one wheeling is some mide, then two, and therefore some then three, I see no neede of three wheelings, esticially seeing we may doe that, wee desire with one. For example, let we wheele our battail: thrice to the right hand, the front will come to be in the place of the left slinke. The same will be personned as well with one whe ling to the left hand. Et sinstead the personned the seeing to the left hand. Et sinstead to moment of time often exceeds the whole businesses, where the least moment of time often exceeds the whole businesses.

The wfe of the motions of wheeling, and double wheeling, is, when the battaile being closed, and the entray comming to assault you in any citier one place, then the front, you feeke to bring the best ment of fight. For if you be to be charged in two places at once, or more, wheeling helps little; except it be to turne the front to one enemy, and in that case your energy fifts; to turne faces against them, that come to charge, on what side source they come. Examples of these two motions, I mean Epistrophe, and Perispassimos meete was almost in carry Greeke tisstorie. Of which I will represent one, or two, especially of the

latter; the rather because practisfe given both light, and life to precepts. 2 Plutarch recounteth, that after King Pyrrhus, had in vaine affaulted Sparts, he was invited by an Arginan named Aristam to receive Argos into his protection, and that hee marched thither ward with his armie. Arieus the king of Lacedemonia laying ambushes for him, and taking the principall streights, by which he was to passe, charged his reare, wherein the Galatians and Molosians were. When Pyrrbus heard the bruite and noise, he sent his some Ptolomy with the band of Companions to aide, himselse with all speede marching out of the streights, led on his armie. The medly being sharpe about Ptolomy, and the chosen Lacedemonians commanded by Eualeus standing close to their busines, Oroefus a Candiot of Aptera, valiant of his hands, and swift of foote, running croffe against the young Prince gaue him a deadly stroke and overthrew him. His fall made the rest to flie. And the Lacedemontans having the victorie, and following the chale came into the Champian ground still killing but not remembring they were not followed with armedfoot. Vpon whom Pyrrhus, having even then heard of, and being much mooved with the death of his sonne, wheeled about the Molossian horsemen. And himselse first advancing vpon the spurre imbrued himselfe with the slaughter of Lacedemonians. He alwaies seemed mighty, and terrible in armes; but then he exceeded himselfe in daring and valor. For turning his Hoise vpon Eualeus who shunning him, shifted aside, and with all strooke at his bridle hand as he passed by, and wanted but little of cutting it off. But miffing the hand, he light vpon the raines, and carried them quite a funder. Pyrrhus with all strooke him thorough the body with his Launce. Then leaping from his horse, and fighting a foote, hee cut in pieces the chosen Lacedemenians, that fought to recouer the body of Eualeus. This was the fight that Pyrrhus made by wheeling about his Horsemen against the Lacedemonians, that followed vpon his Reare. Another example of Wheeling about is reported by Polybius, and it is of Amilear Annibals father, this is the hifters. The mercenary fouldiers of the Carthagmians revolted from them, and overthrew some of their Generalls, and thut them vp within the Citie of Carthage. possessing both other freights, that led into the Countrey, and also a bridge laide ouer a river called Macar, which river was not passable, but by that Bridge. Befides, they built a City for defence of that Bridge. Amilear feeking to dislodge the enemie from that Bridge, and having no way to come at them conveniently; observed, that when certaine windes blew, the mouth of the river toward the fea was commonly filled vp with fand, and would give paffage sufficient for his armie. Finding then a fit time, hee put ouer his army in the night, and before day, or ere any man knew of it, made himselfe Master of the passage; and prefently led against them, that held the bridge. Spendius ( hee was one of the chiefe Rebells) hearing thereof, advanced to meete Amilear in the plaine, and both ten thousand from the City at the bridge foote, and fifteen thousand more from rica, came out one to aide another, thinking to wrappe in the Carthaginians betweene them, who were not about ten thousand Souldiers of all forts, and 70 Elephants. Amilear led on his armie. Before were the Elephants, the horfe, and light armed followed next, the armed foote came last. And perceiuing the enemie, that followed his Reare, preffed hard vpon him, he commanded his whole armie to turne about. Those that were in the Vangard of the march hee willed to returne to him with speede; the other that at first had the reare, hee wheeled about, and straight opposed against the enemy. The Lybians and mercenaries imagining the Carthaginians fled for feare, fell youn them diforderly, and boldly came to hands. But when they faw the Horsemen, being now turned about, and come vo neere to the foote, and aiready put in order, make a ft and, they themfelues, by reason they looked for nothing lesse, fell into a feare, turning their backes fled prefently, as before they gaue on vnaduifedly, and straglingly. And fome of them falling vpon their owne people, that were comming on wrought both theirs, and their owne destructions : othersome were trampled your, and trode to death, by the horse, and Elephants, that followed the chase. Thus farre Polybius. And thus farre of Wheelings. The figure, and words of command are refermed for the 32 Chapter, where the manner of wheelings, and returning to the first posture is fet downe.

# Of filing, ranking, and restoring to the first posture.

### CHAP. XXVII.

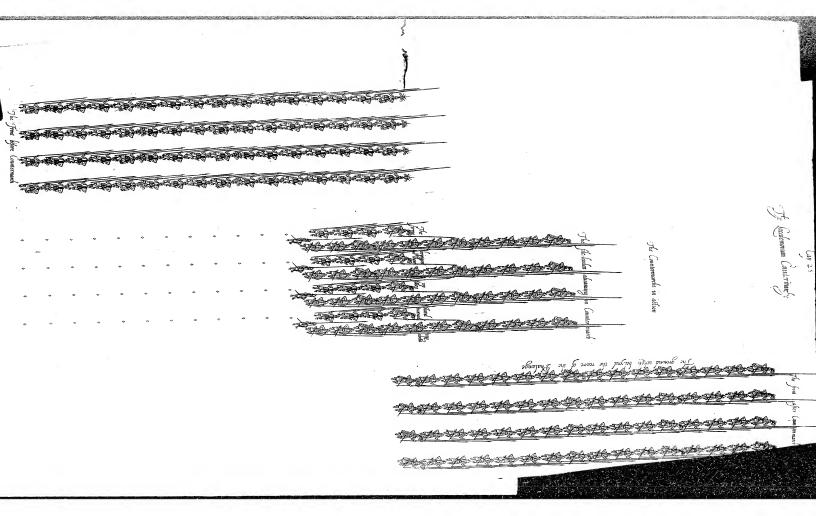
O file is, when every particular man keeping equal distance from other I standeth in his owne file lineally betwixt the file-Leader and bringer-vp. To ranke is, to be in a right line even with his sidemen in the length of the battaile. I To restore to the first posture is, to bring the fight of the Souldier to the same aspect, he had before the first turning. As if his face were at first towardes the enemy, being commanded to turne towards the Pike, and thence to returne to his first posture, hee is againe to returne his face toward the enemy.

#### Notes.

F filing, and ranking enough is spoken before. I To restore to the first posture | This motion differeth from Anastrophe before specified. For Anastrophe bringeth backe againe the whole body to the first place after a Wh. eling : This the Souldiers faces particularly to the first aspect. So that thu is veed a ter the making of an Anastrophe. For alwaies in motions it is requisite, that the Souldiers faces move forward. To move backeward hath many inconveniences, of flumblings upon uneuen ground, or flones, or pittes, or flubbes, or fuch like. Which is the cause that in Anastrophe after aWheeling, Elian willeth, that the Souldiers turne their faces the contrarie way first, then moue on, till they have recovered their first ground, then open rankes, and files, and lastly to restore to the first aspect. And as it differeth from Anastrophe fo differeth it likewise from Metabole. Metabole only turned faces about, this fetteth the Souldier in his former posture, not onely for his face, but for bis armes, also, which are ordered as at first. The wordes wherein this motion is expresfedby Elian are Eporthon apodounai, and Eis orthon apocatastesai, which is interpreted by Gaza in arrectum reddere, to reftore up right, by Arcerius rectum reddere toreffore right, and fo the words found. Alian interpreteth it to fet againe the Souldiers light in the same aspect in which it stood at first: as if being placed with his face against the enemy he be commanded to turne his face to the Pike, and then againe to restore his face to his first vosture, he must returne, and set his face against the enemy. Alian therefore referreth it to the fight, be first had, which if it bee the right meaning, how can it

a Paufan in Atticis 43. b Paufan in Corinth 89. e Paulan in Corintb. 37.

be wpright, or right, more in that , then in any other posture. For the Souldier not onely infront, but in flanke, and in the reare carrieth himselfe vpright, or right. I doubt not, but this it may be applied to the voright flanding of men, as appeareth by fundry places of Paulanias : Who reberleth, that Mineruas Image fet a in the Temple l'arthenion standeth upright, orthon efti, and in an other place, that in Corinth in the Temple Pantheon, there were two Images of Mercurie standing opriets, Ortha, and that in the Temple of Fortune the image of Fortune was carned of Parian-flone, and flood wpright Orthon: and that in Neptunes Temple situate in the Corinthian Ithmus. the images of Amphicrite and Neptune fland in a Chariot, and the boy Palemon voright woon a Dolphin, Orthos. In all which places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in enery motion, not onely in this, the men fland vpright. How then canabey bereflo ed to their flanding vpright , when they doe it already. Itake the originall of the appellation to come from another cause, and that is from the ordering of the Pike For when the battaile is first fet in the field, enery Souldier standes with bis Pike ordered, that is vpright. For to order a pike is to fet the butt end on the ground before the Souldier somewhat wide of his right foote, and to hold it wiright with the right hand borne even with the shoulder. But when you beeinne, or continue any motion, the manner is to aduance, or to shoulder the Pike. and foto proceede. But being commanded to returne to the first posture, it must bee ordered againe. So that the first posture of an armed min is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture, which I take the command of Ep'orthon apodounal to agnifie. Now that I may not feeme to relie upon a probable coniecture alone, I will bring witneffe for the confirmation d Diod. Sicul. of my opinion. It is reported by d Diodorus Siculus, that Agesilaus the Lacedelib. 15. 473. monian King with an armie of eighteen thousand foote, and fifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agefilaus comming had fent five thousand foote, and 200 horse to aide the Thebans, who gathering their armie together seized voon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of the renowne, and glory of Agefilam. Agefilam, haning imbattailed his troupes, led them against the Bastians, and approching neere fent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by theaduan age of the higher ground, hee advanced the rest of his forces being imbattailed in such manner, as might give greatest terror. Chabrias the Athenian willed his Souldiers to awaite the enemy contemptuoufly both keeping their first array, and their Targets at their knees, and continuing their Pikes upright ordered; who when they jointly as youn a word given, did as they were commanded, Agefilaus both wondering at the good order, and at the affured fashion of the enemy though it not fit to firiue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agelilaus, which consisted in the contempt of Ageliaus, and all bis forces : First in not stirring one foote, to meete . he enemy, then in keeping the array they held before; further in fincking their Targets to their knees : Lastly in continuing the former order of their Pikes, that is not making read to charge, but remain no with their Pikes ordered, as they were at first. Ageulaus advancing his armie thought to firike a feare into his enemie; Chaprias truffing to the firen; thof the place, formed the Braudo of Ageliaus, conceiuing, he would not be fo hardy to adventure the fight upon fo great an inequality of ground. He therfore willeth the Couldiers



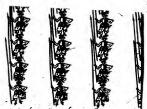
diers not to alter their posture, but to continue as they were. The words concerning the Pike are: En ortho to dorati menein. That is to continue their pikes voright (En ortho ) Now whether the (ame be the posture, that the Tadicks describe, when they Beake or refloring Ep' ortho, vpright, Ireferre to the judgement of the Reader. 2 Po- b Polycaliba. lixnus remembring this Stratagem weeth Comewhat different words, and yet confenteth in Ageliao. in meaning. Chabrias faith he, commanded his Souldiers not to runne out againft the enemy, but quietly to ftand ftill holding their pikes before vpright, and their Targets before their knees which they were wont to doe, when they would a little ease themselves of the weight of their Targets. Where Diodore, but en ortho to dorarimenein, to continue their Pikes vpright. Polienus bath protinomenous ta dorata ortha, holding before them their Pikes vpright. But both have pikes vpright, and Diodorus his Continue hath relation to the Polture they werein, which Chabrias would not have them to alter: Polienus bis hold before to that they were commanded 10 doe. In ordering of Pikes at this day I have showed, that the Souldiers hold them upright the but end let on the ground before, and Comewhat wide of their right foot. \* Amilius Probus reciting this historie peruerteth the Stratagem : He faith that Cha. b Emil. Prob. brias forbad the Phalange to giue backe, and taught his Souldiers to receiue the in Chabria. enemies charge kneeling with one knee, the other fet against the Target, and with the Pike abased. Wherein hee quite dissenteth from Diodore, and Polien. Diodore (aith, thecommand was to keepe their array; Polienus not to runne forward, but quietly to stand still; Probus not to give backe. Probus faith, they should kneele with one knee, and reft against the Target with the other; Diodore that they should hold their Targets sunke to their knees; Polienus that they should carry their Targets before at their knees. Probus that they (bould abase, and charge their Pikes; Diodore that they (box ld continue, and order them vpright; Polien that they Sould hold their Pikes vpright. So that Diodore and Polien agree, and expound one another : Æmilius Probus bringing in a new historie discenteth, as I faid, from the other two ; especially in making that to be a forme of fight prescribed by Chabrias (a simple forme to receive the charge woon their knees ) which was a contempt, to show how little, especially in that strength of ground, he regarded Agesilaus; which contempt also made Agesilaus retire, not doubting but it proceeded from a great assurance of the enemy. Therfore as I faid I take thefe words ep' orthon apodounai not only to appertaine to the aspect of the Souldier, but also ( and that much rather ) to the erection, and ordering of Pikes.

> Of Countermarches, and the divers kindes thereof, with the manner how they are to be made.

#### CHAP. XXVIII.

Here are two forts of Countermarches, one by file, the other by ranke; each 1 of these againe is divided into three kindes. The first called the Macedonian: The fecond the Lacedemonian : The third the Choraan, which is also the Persian, and the Cretan. I The Macedonian is that, which leaving the ground, it first had, taketh in liew thereof the ground, which was before the front of the Phalange, and turneth the aspect of the Souldier backeward [ where before it was forward.

2 The



of Elian.

2 The Lacedemonian is that, which leaving likewise the ground it first had, taketh in freed thereof, the ground which was behinde the Reare of the Phalange. and turneth also the face of the Souldier the contrary way.

3 The Persian is the Cretan, and Choraan : This keepeth the same ground of the Phalange, every fouldier taking another place for that, he had, the file-Leader the place of Bringer-vp, and to the rest in order; and turneth also the face of the

Souldier the contrary way. 4 Countermarches by ranke are made, when a man would transferre the winges into the place of the Sections; and the Sections into the place of the wings, to the end to strengthen the middest of the battaile. Likewise the right hand parts into the left hand parts, and the leit hand parts into the right hand parts. They that feare to countermarch the Phalange in groffe the enemy being at hand.

doe it by Syntagmaes. I will now fet downe, in what manner countermarches ought to be made.

The Micedonian countermarch by file is faid to be, when the file-leader turneth about his face, and all the reft with the Bringer-vp go against him on the right, or left hand, and passing on to the ground before the front of the Phalange place themselves in order one after an other, according as the file-Leader himselfe hath turned his face. Therefore it maketh shew to the enemy appearing in the Reare, of running away: Or it is when the file-Leader turneth about his face, and the reft paffing by him on the right or left hand place themselves orderly one behinde another.

But the Lacedemonian is, when the Bringer-vp turneth his face about, and all the reft turning also their faces, and proceeding forward together with their file-Leader order themselves proportionably in the ground, which was behinde the Reare of the Phalange. Wherefore to the enemy appearing behinde, it makes a femblance of falling on. Againe the Lacedemenian is, when the file-Leader turning his face about to the Pike, or Target transferreth the whole file to another place equall to the first; and the rest following stand, as before, behinde him. Or elfe, when the Bringer-vp turneth his face about, and hee, that flood next before him, paffing by on the right or left hand, is placed againe next before him, and the rest following are placed one before another in their former order till the file-Leader be the first.

The Chergan is, when the file-Leader turning about toward the Pike, or Target, precedeth the file, and the reft follow, till the file-Leader have the place of the Bringer-vp, and the Bringer-vp the place of the file-Leader. And these are the Countermarches by file.

In the same manner are Countermarches made by ranke in case a man would countermarch by ranke. For every ranke Countermarching either keepeth the fame ground, or changeth the right hand place, or else the left hand place, of the battaile, one of which must needes fall out, and neuer faileth.

#### Notes.

He was former motions are performed, one in close Order, the other in all Orders; Epistrophe when the battaile is sout soclose, that (as Alian faith) aman can turne his face neither the one way, nor the other. Clifis in open Order, Order, and close Order. See Leo cap 7. The two a following motions, Countermarch, and Doubling, one is done in open \$83.84 Order, the other for the most part in open order too; and yet sometimes in Order, and

close order; as we shall see in due place. This Chapter bandlezh Countermarches, the next Doublings. Countermarch is a motion, whereby every fouldier marching after other, changeth his front for the reare, or one flancke for the other. For there are two kindes of Countermarches, one by file, and the other by ranke. And each of these is againe divided into three; the first called the Macedonian; the second, the Lacedemonian; the third the Choraan, or Creran. A Countermarch by file is, when eaery souldier followeth his Leader of the same file; By ranke, when every fouldier followeth his fideman of the same ranke in the Countermarch.

1 The Macedonian Countermarch ] inthis Countermarch, the purpose of the Commander is to turne the front of his battaile against the enemy that sheweth him selfe in the Reare; and withall to take the ground that lyeth before the front of the Phalange. It is called the Macedonian Countermarch ( Saith Elian ) because the Macedonians were the inventers of it. Which of the Macedonians he telleth not, but excludeth Philip, and Alexander, who both wfed the Lacedemonian Countermarch. And before their times I have not read of any warlike Kings of Macedonia The manner of it is this; First all the File leaders turne their faces about either to the right or lest hand; then the next ranke passesh thorough by them on the same hand; and being cometotheir distances, place themselves directly behind their File-leaders, and then turne about their faces the fame way. Ana fo the third ranke after them, and the fourth, and all the rest, till the Brimeers-up be last, and have taken the reare of the battaile againe, and turned about their faces. The figure expressed not well the action. For in it the Bringers-up begin first to countermarch, which according to Elian should move last. Tet may this Countermarch be done, as the figure is. But I take Elians way to be easter, and readier. And it may be also, that the Countermarch expressed in the sigure is lost in the text. For one of the Lacedemonian Countermarches, which proceedeth the contrary way, beginneth the motion with the File-leaders, as this doth with the Bringers-up, as wee shall Straight See.

2 The Lacedemonian countermarch ] In this Countermarch the proceeding is contrary to that of the former; that tooke the ground before the Phalange, this takes the ground after. In that the mouing was from the Reare to the front, in this from the front to the reare. This is the invention of the Lacedemonians. Alian describeshit to be done in two manners: One, when the Bringers-up first turne about their faces, and the next Su Leo cap.13. ranke likewise surning faces beginnesh the Countermarch, and every manshereof placeth \$ 95. himselfe directly before his Bringer-up, and the third doe the like; and so the rest, till the ranke of the File-leaders come to be first: The other, when the File-leaders begin the Countermarch, and every one in their files follow them orderly. The figure expresses this laft. Alian preferreth the Lacedemonian Countermarch before the Macedonian : because in it the souldiers seeme to fall on, and got to the charge; where in the Macedonian they Seeme to flie. There are not with standing times, when it is bester to wee the Macedonian. As in case you meane to march on, and not to sight with the enemy, except you becompelled: Or elfe you seeke to gaine some ground of advantage. For the Macedonian continueth fill the march, and stayeth not; the Lacedemonian returneth upon the enemy, and so looseth ground in marching. Agelilaus after victorie gotten against the Argives, against whom he stood in the right winge, hearing that the Thebans had beaten the Orchomenians in the left winge, wied the Lacedemonian Countermarch against them. The words of x Xenophon found thus: Here the strangers were about to crowne x Xenophine Agesslaus (thinking he had got the victory) when newes was brought that the gree hb 4. Thebans, after they had broken the Orchomenians, had forced a passage as farre as 119. C. the baggage. Then Agesilaus, countermarching his Phalange, led against them.

Kenoph.hift.

grac ib 6.

The Thebans perceiving their Confederates were fled up to the mount Helicon, clofed their troupes together, as neare as they could, feeking to open a way by force, and to get vp vnto them. Agefil. walbeit he might by giving way to the formost haue followed them at heeles, and charged the reare, yet did he it not, but met the Thebans front to front. Thus encountring, and clashing their Targets together they fought, thrust on, killed, and were killed. In fine some of the Thebans. broke thorough to Helicon; other some, as they sought to escape, were left dead on the place. Agefilaus here followed the chase upon the Argives toward the mount Helicon: The Thebans woon the Orchomenians the contrary way towards the enemies Campe. The Thebans leing their confederates fled to the mount Helicon returned toward them, Agefilaus countermarched to meete them, met them, and fought with them. For the Countermarch he weed, I make account it was the Lacedemonian him elfe being a Lacedemonian. And he veed it to meet the Thebans brauely in front. The same Agefilaus, after he had by night incamped in a peece of ground behind Mantinga incompaffed about with mountaines, perceiuing the next morning, that the Mantinaans gathered together vpon the toppes, that lay right ouer the head of his Rearegard, determined to lead his Armie out of the place with all speed. Now if himfelfe should lead, he feared the enemy would give vpon his Reare. Therefore standing fill, and turning his armes against the enemy, he commanded the last of the Phalange to march backe againe from the Reare, and come vp to him; and fo at once he brought his Armie out of the streights, and made it by little, and little stronger. When the Phalange was thus doubled, he proceeded in that order into the Champeigne, & there againe reduced the depth of the armed foote to 9 or 10 men in every file. This place of Xenophon, if it be not corrupted, is very obscure. And I cannot tell whether to take it for doubling of the front, or the Macedonian countermarch. The words make for a doubling. For Xenophon faith plainely, the Phalange was doubled. Besides he addeth, it was made by little and little stronger; which could not be done with a Countermarch. And that a deepe Phalange, or Hearle, (fuch as this by the evenings march, and the straights it entred, seemeth to be) is made stronger by doubling the front, there is no question. On the other side, the streights, thorough which it was to passe, perswade me, it (bould be a Macedonian Countermarch. For in doubling the front the length still increaseth; & the manner is not to inlarge, but to extenuate the front, when an Armie is to be conveighed thorough a narrow place. And Xenophon faith exprest, that Agesilaus led it thorough the streights into the Champeigne in that order, to which it was reduced last; & that in the Champion the depth of the Armed was lessened, and broughs to 9 or 10; for there Agesilaus imbattailed his Phalange to receive the enemy, if he would charge. And in a march through straight waies the front is commonly narrowed, and proportioned to the way; but in open ground the Phslange is againe brought to the suft length. So that it feemeth the depth was much before it come into the plaine; because in the plaine it was brought to 9 or 10 men, and therefore no doubling. Lastly Agesilaus, (and the front I doubt not of the Phalange with him) turned face to the enemy, before the Rearecame up to him. which is don: in no other motion than the Macedonian countermarch. In which all the File-leaders first surne about their faces toward the enemy, and then the whole battaile marcheth against the File-leaders, and placing them selves orderly behind them, turne their faces the same way, that they have done before. Now where it is in Xenophon, that Agesilaus hauing gained the Champeigne, extended his Armieto 9 or 10 Targeteres, I suspect a fault to be in the number of 9; and that it ought to be read 8 or 10. To extend a Phalange is to draw it out in length. the length is the space betwixt the point of both wings. When be saith he extended it to of Ælian.

10, the meaning is he drew it out so farre in length that he left but 10 in depth. Ten is the decas, whereof I spoke before, and I have likewise noted, that the Lacedemonians for the most part, made the depth of their battaile 8. The number of 9, as all other uneuen numbers, was released by the Tacticks, as unfit for doublings. So that mine opinion is that Xenophon at the first wrote 8 or 10, not 9 or 10, how sower 9 be crept into the place of 8. But to returne to Agefilaus, admit he vied doubling of ranks, or of the from in retiring out of the Mantinean straights, yet give me leave to be of opinion, that the Micedonian Countermarch had beene the fittest motion for that purpose. For himselfe being thereby cast in the reare, he had both prevented the charge of the enemie (which he feared) and yet wounde better out of the straights, the long Hexle, which still remained inthe Macedonian Countermarch, being more proportionable to iffue out of a narrow place, then a broad-fronted Phalange, which ariseth out of doubling the

3 The Persian is the Cretan or Choraan ] This Countermarch is called the Periian, and Cretan, because it was wied among st the Persians and Cretans. And it was termed the Chorean also, of the similitude it had with the solemne Gracian dances upon stages; the company, that shewed themselves in such dances being called Chorus. Who in their daunces or dered themselves into files, and ranks, as soulaiers doe in battaile, and mouing forward to the brinke of the stage, when being straightned by the place, they could passe no further, they retired one through the ranks of the other, exceeding not the bounds of the place, as is done in this Countermarch. The other two kinds of Countermarch changed the ground, they had before. The Macedonian tooke the ground before the front; The Lacedemonian the ground after the reare. The Chorwan boldeth the sime ground, & beginneth the motion with the File-leaders, who notwithstanding proceede no further, then thither, where the Bringers-up flood, their files following them, & every fouldier keeping the same distance he had before the mouing. The figure shewes the manner of it. h These Countermarches by file, are to be made, when the enemy appeares h Xenoph de in the reare, and commeth to charge vs. And they are made to the end, to bring our best tep. Luced men, that is the File-leaders, to the incounter. Wherein not with sanding there is a caution 686. E. to be held, that if the enemy be very neare, or so neare, that we cannot conveniently coun- see! eo cap. termarch, before he come up to vs, we forbeare, lest we fall into disorder, and in disorder 18.5. 39. be easily defeated. In which case the best remedy is to turne faces about, and so receive him.

Milberto of Countermarches by file.

4 Countermarches by ranke are made ] The ends of Countermarches by ranke are two in Elian: one to strengthen the middest of the battaile; the other to strengthen the wings. If the strength of the enemies bastaile, he most in the middest, reason of Warre would, that we should oppose our greatest strength against the middest. If in the wings against the winges. There is an other cause of strengthning the winges, namely if the enemy be ready to charge either of them: and this strength Elian would have given by the Countermarch of our best men into the winges. It shall not be from the purpose to make all plaine by an example or two. Herodotus reporteth, that before i Herodotus the battaile of Platza betwixt the Gracians, and the Persians, it was agreed be- & Plutanham twixt the Athenians, and Lacedemonians, that where the Athenians had van- Anflode. quished the Persians in the battaile of Marathon, and had lately slaine Massistius the Generall of the Perlian horse; and by those incounters had good experience of the Persian manner of fight; and where the Lacedemonians were imbattailed in the right wing against the Persians, the Athenians in the left wing against the Thebans, and other Græcians, that tooke part with the Perlians: they should change, and the Athenians haue the right wing, the Lacedemonians the left.

These news were caried to Mardonius the Generali of the Persians; who whether fearing the Athenians, or defirous to fight with the Lacedemonians, changed his place from the left into his right wing, to the intent to oppole egainst them; which when Paulanias law, he returned to his right wing, and Mardonius to his left, the place, which he had at the beginning. Here are changing wings on both parts . The one coneting to fight in the left wing, the other defirous to fight in the right. The Countermarch by ranke from the right wing would have fitted Paulanias: as the contrary Countermarch would have fitted Mardonius. Tet am Iled to thinke that Paufanias veeda wheeling of his battaile, and so conveighed it from one wing to another behind the battaile of the other Gracians, to the end, that being fladowed by them, hee might the better hide his purpose from Mardonius. Another example I finde in Livy k Liv. decad.3. and Polybius both. It is this: k'Pub: Scipio, who was afterward called Africanus. and Afdruball the sonne of Gifge, being incamped neare together in Spaine brought daily out of their Campes their Armies one against an other. And after they had long stood waiting, who should begin the fight, which was done at neither hand, they conveighed them backe againe. The manner of their imbattailing was this. The Romans, and likewise the Carthagineans mingled with the Africans, had the middle, their Confederates the wings. The opinion was they should fight in that order. Scipio when he perceiued this to be firmely beleeued, the day before he ment to fight, made an alteration of all. When night came, he gaue the word thorough the whole Campe, that horse, and men should dine, before it was light day, and that the horsemen in Armes should keepe their horses bridled, and sadled. The day was scarse sprunge, when he sent his horse, and light-armed to beat in the Carthaginean Gardes, himselfe streight followed with the armed Legions; disposing the Romans (contrary to the setled opinion of his owne people, and of the enemy) in the wings, and receiving the Allies into the middeft. Afdrubal raised out of his bed with the cry of his horsemen, had no sooner leaped out of his Tent, and seing the tumult before the trench of his Campe, and the amazednes of his people, and the Ensignes of the Legions shining a farre of, and the field full of enemies, presently sent out his whole power of horse to vndertake the Roman horse. Himselse issued out of the Campe with his foote, not changing any thing of his wonted manner of imbattailing. The fight of the horsemen had now a long time beene doubtfull, and could not bee tried, because still, as they were beaten (which hapned a like to both) they found a fafe retreat within the battailes of foote. But when the Armies were come within 500 paces one of an other, Scipio giuing a fignall of Retreat, and opening his battaile, received all the horse, and light-armed into the middest, and dividing them into two parts, placed them as seconds, behind the wings. Now when time was come to begin the fight, he commanded the Spaniards, who had the middle ward, to march on leafurely, and fent a meffenger from the right winge (for hee commanded there) to Syllanus and Martius, willing them to thretch out the left winge, as they faw him stretch out the right; and to charge the enemy with the light-armed, and horse, before the middle wards might be able to come vp, and ioyne. The winges being thus stretched out, they led with all possible speed three Cohorts of foote, and three troupes of horse a peece, against the enemy, befides the light-armed, and those that were received into the Reare, who followed a thwart. There was a great empty space in the middest, because the Enfignes of the Spaniards came flowly on. And now the wings were in fight, when the old fouldiers Carthaginians and Africans, the strength of the Armie, were

not yet come to vse their darts, neither durst they runne into the wings to helpe them, that fought for feare of opening the middeft of the battaile to the enemy, who was comming on against them. The winges were pressed with a double medley. The Horse, light-armed, & Velices, wheeling about their Troupes, charge their flanks. The Cohorts pulhed on in front, to the end, to breake of the wings from the body of the battaile. And the conflict was vnequall both in all other respects, and especially because a rable, as it were of drudges, and vntrained Spaniaids, were opposed against the Roman and Latin souldiers. The day being now farre spent, the Armie of Asdruball oppressed with the mornings tumult, and compelled to take the field, before they had ftrengthned their bodies with meat, began to faint, and faile in strength; which was the reason that Scipio lingered out the day, & made the fight somewhat late. For it was past the seventh hours. before the winges of foote attached one an other: and yet the fight came later to the middle wards. So that the foorching heat of the fouth-funne, and the labour of standing armed, and hunger, and thirft, first afflicted their bodies, before they came to hands with the enemy. Therefore they food leaning upon their Targets, and being weary both in body, and minde, they gaue backe at last; keeping notwithstanding their array no otherwise, than as if the battaile being yet entire, had retreated at the commandement of the Generall. But when the victors, perceiuing them to shrinke, so much the more eagerly pressed on , the brunt could hardly be indured any longer. And aithough Afdrubal restrained, and stopped them, that gaue ground, crying that hills and a safe place of retreat was at their backs, if they could be but intreated, to revire easily; yet feare ouercomming thame, and the enemy killing them that were next to hand, they forthwith turned their backs, and vniuerfally powred out themselves into flight. This firstagem of Scipio refteth principally in flifting his best men ( the Romans) into the winges; the Spaniards his worst into the middest, and in keeping the Spaniards aloote from loyning; and in hasting to try the day with the Romans against the weakest of the enemy. Asdrubals way to meete with this stratagem had beene to countermarch by ranke halfe his Carthaginians, and Africans into one winge, and halfe into theother. And by that meanes his Spaniards should have had the middest against the Roman-Spaniards, and his old fouldiers Carthaginians and Africans beene oppofed in the wings against the Romans, and Latins, and the advantage eluded, that Scipio Sought.

As the Countermarches by file were of three kindes, fo are the Countermarches by ranke; namely the Macedonian, the Lacedemonian, and the Chorgan. The Macedonian beginneth to move at the corner of the wing, which is nearest to the enemy, the enemy appearing to either flanke. And therefore incarreth the same imputation, that was laid upon the Macedonian countermarch by file; as feeming to runne away, because it dismarcheth from the enemy. Tet is there wife of it, as well as of that by file. For by this countermarch you may fet the strongest part of your Armie against the enemy, and apply the weakest to some River, Lake, hill, or such like, so that the enemy can not come to incompasse it. It taketh the ground that beth on the side of the contrary wing. The Lacedemonian taketh the ground that lieth on the fide of that wing, which is toward the enemy, and bringeth the best men to be formost against the enemy: And therefore beginneth the moving on the contrary fide. The wfe of it is when your forces are fuch as are able to incounter the enemy, and you defire to bring your best men to fight. The Chorean keepeth the same ground, the battaile had at first, & bringeth one wing to possesset place of the other; Or elle the Sections to possesse the place of the wings, as might bane

beene done in the last example cited concerning Scipio and Asdrubal. The manner of countermarch by ranke is contrary to the countermarch by file. In countermarch by file the motion was in the depth of the battaile, and either the front removed toward thereare, or thereare toward the front, and tooke one an others place. In this the motion is in length of the battaile flanke-wife; the wing either marching into the middest, or elfe cleane thorow to the other wing. In doing it the fouldiers, that stand vetermost in the flanke of the wing, must move first to the contrary wing, and the rest of every ranke severally follow them in order, The figure will thew the manner of the motion. Patritius viterly mistaketh the countermarch by ranke; and groundeth himselfe woon a wrong principle, namely that in all Countermarches the File-leaders must march toward the reare, and the Bringers vp towards the front. And therefore in changing the winges into Sections, he makes the winges to fall of behind in the reare (the File-leaders wheeling about ) and there to some themselves as neare, as the middle Section will give leave, and the Sections falling backe likewife, to toyne themselves to the flanks of them. that were the wings. Whereas the nature of this Enolution is clearely to leave the Fileleaders in front, and Bringers-up inveare, as they were at first. And albeit the File-leaders then change their places, yet change they their place with none, but with File leaders, and the change is, but a change of hands, the right hand for the left, or the left hand for theright. For whereas the File-leaders of the right wing had before the right hand, now in countermarch by ranke, being transposed to the left wing, they have the left hand of all therest of the File-leaders; as likewise the Bringers-up of the other bringers-up.

# The words of Command may be thefe,

For the Macedonian Countermarch by file.

File-leaders turne your faces about (to the right or left hand). The reft of eury File paffe thorow in order one after another, and place your felues at your diffances after your Leaders, turning your faces about; and fo stand.

# For the Lacedemonian Countermarch by file.

The firft manner.

Bringers-up, turne your faces about to the right or left hand.)
The rest turne your faces about and beginning at them, that are next to the Bringers-up,
COUNTERMACH and place your selves in your distances before the Bringers-up, and
one before an other till the File-leaders be sufficient.

# The fecond manner.

File-leaders, countermarch to the right, or left hand, and let euery mans file follow him, and keepe true distance.

For the Chorçan countermarch by file.

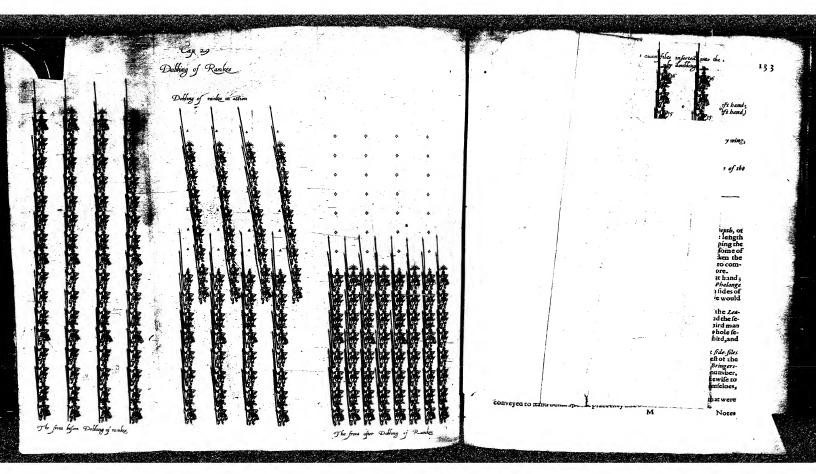
File-leaders, countermarch to the place of the Bringers-up, and fland, and let your files follow you keeping their diffance.

For the Macedonian countermarch by ranke.

The right or left hand corner file, turne your faces to the right, or left hand.

The reft of each ranke, paffe shorough to the right, or left hand; and place your selves or derly behind your side-men keeping your distance.

For



-200 :300 -375 aire viscous states and viscous airedy to idented, by itterding, and the ringe of the Jaintale. I live the new range the entiry, or elle our tell of the feet of the the ingredied into the tail all the causes like most feet old. But the feet of th Here are two kinds of do fair: and beither of thele is doubled in number when of a fame ground) of 248 files, by infe the followers, that thood in the cheight of the batrale. If we fill to mand thole, that were intered, to The othermost cernes site of the right left or right winge, and shand. And the rest sollow sanke wise keep \* There are, that millike thei and would have a frew of doub The right or left wing, where the The corner file, where she enemy a The reft of ech rankes turne your and place your felues before your Forthe Chor For the Large

To purito a set inort sit ? Notes w בסטות האבם בס ונשוות בייי קיי that were animber, frammer, frammers frammers, frammers, श्रीपुरकारी उ -she Lee-she the le-nembrid -she le-bne chiidh Ne Moniq Phalange st pand 3 .o.c. -mo>01: скеп сре o didac dignal a form gaid domol, 241 fo 2 Butas Ci (purq 1/2) Spurq 1/2) mortes in sidner fo puridoas Dopper of Jourgo ות לפנונים ומום ומים: 6= 16m

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The

For the Lacedemonian countermarch by ranke.

The first manner.

The corner file, where the enemy appeareth, turne your faces to the right or left hand; Therest of ech rankes turne your faces, and passe thorough, ( to the right or left hand) and place your felues before your fide-men orderly keeping your distances.

The fecond manner.

The right or left wing, where the enemy appeareth not, countermarch to the contrary wing, and all in the Ranks follow every man his fide man; keeping your distance.

For the Chorwan countermarch by ranke.

The vetermost corner file of the right, or lest wing, countermarch into the place of the left or right winge, and stand. And the rest follow ranke-wife keeping their distance.

Of doubling, and the kindes thereof.

CHAP. XXIX.

Here are two kinds of doubling, one of Rankes, the other of Depth, or files: and 2 either of these double the number, or the place. 3 The length is doubled in number when of a front of 124 files we make a front (keeping the fame ground) of 248 files, by inferting in the spaces betwixt file and file, some of the followers, that stood in the depth. This is done to the end to thicken the length of the battaile. If we lift to recall them to their first posture, we are to command those that were inserted to countermarch to the place, they had before.

4 There are, that millike these doublings, especially the enemy being at hand; and would have a flew of doubling made, without indeed doubling the Phalange already ordered, by stretching out the light-armed, and the Horse, on both sides of the wings of the Battaile. 5 The vic of doubling the length is, when either we would oner-wing the enemy, or elfe our felues feare to be oner-winged.

The Depth is doubled 6 by inferting the fecond file into the first; so that the Leader of the second file be placed next behind the Leader of the first file, aud the second man of the second file be the fourth man of the first file, and the third man of the second file be the fixt in the first file, and so forth the rest, till the whole secondfile be ingroffed into the first; and likewife the fourth file into the third, and all the even files into the odde.

Doubling of the Depth by Countermarch is made, either when the next fide files in feuerall [ as in the former example the fecond, and the fourth, and the rest of the euen files countermarch to the Reare, and place themselves behind the Bringersup of the odde files; or else the files remayning in their first place, and number, halfe of them, dividing themselves from the other halfe, countermarch likewise to the Reare, and conveying themselves behind the other, there order themselves, and so double the depth of the Phalange.

If we would returne them to the first posture, we must recall those, that were conveyed to fland behind, to the place they had before the Countermarch.

Notes

Notes.

HE former three Motions after not the forme of the Phalange. For whether you turned faces, wheeled, or countermarched the Phalange, the depth and length remained one. The motion to be expressed in this Chapter induceth another shape to the Phalange; and maketh it feeme a different body from that it was before, being by Doubling extended either in length or in depth. For Doubling the number of men, or the place of the Phalange in front, maketh the length twife as much, and doubling the same in flanke maketh the depth double to that it was before. For Doubling is nothing elle. then making a military body twife as long, or twife as deepe, as it was before.

I There are two kindes of doubling ] The Doublings are either of length n Suidas inte or depth; Or ( which is all one as a Suidas Jaith) of ranks or files. For ranks stretch wind Diplica- out in length, files in depth. And thefe againe are divided into two other kinds, the

body being

2 Doubled in number or place ] That which is here called number, is called elseo Suidas in the where persons; or o (by Suidas) men. It is called persons in the Insertion which is werd D.pl.lis- made to Elian, I know not by whom, in the precedent Chapter of Countermarches. Which because it lay thrust in between the description of Countermarches, and nothing perteined to that argument, I never made doubt, was crept into the text. And I am rather confirmed in my opinion, because I faw it noted with an Afteriske in that Elian (being of Robortellus Edition) which the learned Isaack Casaubon had quoted, and purposed to fee forth, if untimely death bad not prevented him. I will here fet downe the words, because they differ not much from Alian, and may give some light to the manner of Doubling. It is to be understood ( fo are the words) that a Phalange is doubled in persons, or place. when we therefore take halte the fouldiers from the Depth, and making files of them, place them even with the rest in length of the front, fo that of 124 files we make 248, this is Doubling of persons. In like fort we double the place with 124 files (not increasing the number) but onely commanding some to turne to the Pike, some to the Target, till the Phalange be firetched out to a convenient length, as from 5 furlon 35 to 10. In the same manner is the depth doubled. For either one file is inserted into an other, man for man, so that the second File-leader becomes the follower of the first, and the second man in the second file, the follower of the second in the first file, and so the rest: Or else 16 men

> farretheinfertion. It followeth in Elian. 3 The length is doubled in number ] When the front hath twife as many files, as it had before, this is Doubling in number, or in men, or in persons. For the persons, or men, make the number in the files. And the files carrying an even depth of men, and being doubled, double the number of the front, er I noth. Elian Beaketh but of one kinde of doubling, namely of number, and that must be done in open order, as I said before. For the files of 16 standing in open order if you command the Middlemen ( as we terme them at this day, ther were colled in the Macedonian files the third Enomotarchs) to double their ranks: These middle men with the hinder halfe file march up to the front, Er so doubling the front in number leave yet the same measure of length. The sigure sheweth how it is dore. Tet are there two other waies, when the Phalange flandeth in close order, both which double the number, and place. One is when the Middlemen divide themselaes, and one halfe with their followers turning their faces march out of the right flanke: The other of the left flanke of the Phalange. And then turning their faces againe,

are so extended, that they hold as much ground in length, as 32 vsuallydoe. So

sleeve up and toyne themselves in an even line with the File-leaders in front; The other when all the Middle turne their faces one way and march out with their followers beyond one flankeright or left; and turning faces againe fleeue up to the front, and fland even with the File-leaders. One of thefe is done, when we defire to enlarge both the wings of the Phalange; the other, when but one wing. Of these two last wates, I have set downe no figure, because I finde them not expressed in Elian. Cleandridas the Lacedemonian. weed yet an other kinde not foken of by Elian. " Polienus telleth the flory thus : n Polyenlib s. Cleandridas making warre vpon the Thurians, having halfe as many men againe, in Cleandrida. as they, conceiving if they had intelligence hereof, they would hardly bee brought to fight, imbattailing his Phalange, stretched it out in depth. The Lucans therefore, contemning the small number, drew out their forces in length, with intent to ouer-front the enemy; which Cleandridas perceiping, commanded the followers to march up, and ranke with their Leaders; and by that meanes increafed the length of his Phalange, and ouer-fronted theenemy; who being incompassed, and assailed with missiue weapons on all hands perished intirely, excepting a few, that faued themselues by shamefull flight. The words seeme obscure to aman not acquainted with the Tatticks. There are two kinde of soldiers saith Elian in a file, Leaders, and followers. All the Leaders are the odde of the file; as the first, the 3. the 5, the 7, and so forth: the followers are the euen, as the 2, 4,6,8. Those that are in the fame ranke, are called fide-men. Wow, faith Polien, Cleandridas willed the followers to ftep forward, and to ranke, and become fide-men with their Leaders: that is, he willed the even files to double their ranks with the odde; and Co extenuated the depth, but increased the length of his Phalange; by which art he ouerfronted, or inclosed the enemy on all sides. This way then to double ranks, or the length of the battaile, is to infert the even ranks man by man into the odde. All the Doublings that have beene rebearfed, were Doublings either in number alone, or elfe both in number, and place. For doubling of place alone nothing is faid in Elian. The Infertion I recited, supplyeth this defect : faying, the place is doubled with 124 files, onely by commanding halfe to turne to the Pike, halfe to the Target, till the Phalange be firetched to a convenient length; as from 5 furlongs to ten; which is as much to fay in few words, as to open the Phalange; Or to bring it from order, to open order. For fo the front possesset double ground to that it had before.

of the length: One to overwing the enemy, the other to avoide overwinging our o See Leo exp. felues. Cleandridas in the example aboue, performed both: For he both disappointed 7.8.69.879. the Lucans that lought to incompasse him, and besides incompassed, and inclosed them. The narrower the front is, it is the more in danger of over-fronting; P being p Xenoph Cy. drawne out in length it is freer from enclosing , because a greater compasse must be fetched, rop lib. 6. 168. before it can be inclosed. Tet are we to take beed, that in doubling of the front, we give it not so much length that it fails in depth. The want of length, or depth is alike dangerous, and giveth advantage to the enemy. I have touched before and quoted Leo glancing onely at his words. Now I will fet them downe as they lye : 4 When the thicknes q Leocap. 14. or depth of the Phalange (faith be) is gathered up and made more thinne, it be- \$. 108. houeth not so to lengthen it, that it become altogether weake and without depth. For it will so come to passe, that the enemy shall easily cut it in peeces, and make a passage thorough it, and not onely seeke to incompasse it before, but paffing thorough the middeft, bee found behinde, and there indamage it. And this it behooueth a Generall, not onely to take heede, hee fuffer not himselse, but also indeuour to put vpon his enemy.

The vie of Doubling the length is \ Two causes are assented for the doubling

Hisherto

i Leo cap.7.

k Polyen leb 4. in Anni ono.

Hitherto are the words of Leo: shewing the disadvantage of a battaile too much thinned by doubling the length. But Leo elsewhere audeth an other cause of doubling, namely to make thew a faire fight of the Armie. For the more ground it taketh in front, the more will the number appeare, and the bravery of every min in particular discouered. Further Antigonus vied aife this doubling for a policie to beguile his enemy. Polien reporteth the fact thus : Antigonus incamped against Eumenes with an armie inferior in number. And when messengers were sent often from one to an other, Antigonus at the receit of a messenger of the enemy, commanded one of his fouldiers to come running in, as it were out of breath, and all to be-fullied with dust, and to bring newes that his Confederates were come. Antigonus hearing the newes, leaped for ioy, and sent away the messenger. The next day he led his Armie out of his trench, doubling the length of his front. When the enemy heard of their messenger the newes, that was brought to Antigonia concerning his Confederates, and faw the length of his battaile doubled, they imagined that the depth was answerable to the front. And therefore they dislodged being afraid to joyne with him.

5 There are that missike] Countermarches, and Elians doublings of number, are dangerous the enemy being ready to charge. Because the files of the Battaile must be kept in open Order is like motions be ended; which posture is not fit to receive the charge of the enemy, as we saw out of the elementh Chapter. The other two doublings are done in close order, whereof I made mention a little before; The one dividing the middle men in halfe, and fleening them up by the battaile on both fides; The other fleening them upon one side which you will, may be used without danger, as well when the enemy is neare, as when the fight is : in as much, as they disturbe not the battaile, but advance

fresh aides against the enemy on the flanks of it. 6 By inserting the second file ] There are two manner of doublings of the depth or of files; one in number, the other in place. In number, when one file is inserted into another, the Leader or first man of the second file standing behind the Leader of the first; the second behind the second, the third behind the third, and so forth of the rest: Or when the euen files countermarch, and their Leaders place them elues behind the Bringers-up of the odde, their files following them; or (which commethall to one) the files being whole, they divide themselves into two parts in the front, and halfe countermarch, and place themselves in the Reare of the other file to file: albeit the two last are Doublings both in number and place, and not in place slone. The true Doubling of the place alone is not Alian. The Insertion whereof I spake, remedieth this defect also. There it is faid, that when 16 men (that is a file) are so extended, that they possesse as much length as 32 should doe, (that is, as 2 files) it is doubling of place. which is nothing elfe but changing of the Souldiers order into open order. For in their order they have 48 foote in depth; in their open order 96 foote in depth. In this Doubling of depth we must take heed that we make not the frent of cur Armie to narrow lest we give oportunitie to the enemy to incircle, and incompasse it. Polybius noteth this a great fault in Marcus Atilius Regulus, at Such time as he fought with the Carthaginians, and was taken prisoner. His words have this effect : " The Romans seing the enemy order his battaile marched out against him fu lof courage. Being notwithstanding fomewhat appalled at, and forefeing the Elephants violence in comming on, they fet their Dariers before, and placed many maniples of Armea behind, one after an other, and divided the Horse haise into one wing, halfe into the other. Then making the whole battaile shorter, but deeper, then they were wont, they prouided well against the Elephants, but not against the Horse, that farre exceeded theirs

in number. Being now come to hands the Roman horse ouerpressed with multitude of the Carthaginians quickly fled from either wing. But the foote of the left wing, parrly anoyding the Elephants, partly contemning the Mercenaries, fell on, and charged the right wing of the Carthaginians, and putting it to flight, followed hard, and gaue chase even to the trench. But of those, that were placed against the Elephanes, the first linking under the violence of the beasts, perished being querturned, and troden to death by heapes. The body of the battaile remained a while vnbroken by reason of the depth of them, that were after placed. But when the Reare of all, incompassed by the horse, was forced to turne about, and fight with them; and the other that had by force made way thorough the middeft of the Elephants, and were now behind their backs, came up to the fresh Phalange of the Carthaginians, flanding in good order, they were by them flaine. Thus fortune being contrary on all fides, the Romans for the most part were troden to death by the excessive might of the beasts, and the rest died with the darts of the horsemen in the place, where they fought. The error of Attilius Regulus was in ordering his battaile too deepe; by meanes whereof it was eafily incompassed, and distressed by the Carthaginian borse. " Appian likewise blameth Antiochus for orde- m Appian in ring his Phalange 32 men in depth, where the Macedonian Phalange ought to but 16 deepe, Syrianis 107.B. shewing that by that suersight it was incompassed by the Romans, and overthrowne. I have touched the historie in my notes before. Many other examples might be alled ged , but thefe two are sufficient for our purpose.

> The words of Command in doubling of the length by number.

Middlemen double your Rankes to the right, or left hand.

By this Command the middle men with their halfe files march up to the front, in the spaces betwixt the files, and stand even with the File-leaders, and the rest even with the reft of the Ranks.

Doubling of the length in place.

Stand in your open order.

One halfe openeth their files to the right hand, the other to the left, and fland fix foote one from another.

Doubling of the depth in number.

Double your files to the right or left hand. The even files fall into the spaces of the odde files:

Double your files by countermarch to the right or left hand.

The even files countermarch, and fall behind the reare of the odde, and place themselves lineally after them, observing their first distances.

Divide your files and double them by countermarch to the right, or left hand.

Halfe the files divide themselves from the other halfe, and countermarch out behind the Reare, then turne their faces towards the place behind the Reare of the flanding files, which removed not; then march on, and place themselves orderly behind them file to file, then turne their faces, as at firft. Doubling the depth in place.

Ranks open bebind to your open order.

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M 3

The broad-fronted Phalange, the deep Phalange, or Herse, and the vneuen-fronted Phalange.

#### CHAP. XXX.

D Lagiophalanx, or the broad-fronted Phalange, is that, which hath the length much exceeding the depth.

Orthophalanx, or the deep Phalange (commonly called the Herse) is that, which procedeth by wing having the depth much exceeding the length. In generali speach every thing is called Paramekes, which hath length more then the depth; and that which hath the depth more, then the length, Orthion: and fo likewise a Phalange.

The Phalange Loxe, or vneuen fronted, is that, which putterh forth one of the wings (which is thought fittest) toward the enemy, and with it beginning the fight, holdeth off the other in a convenient distance, till oportunitie bee to advance

> Of Parembole, Protaxis, Epitaxis, Proftaxis, Eutaxis, & Hypotaxis.

#### CHAP. XXXI.

P Arembole, or infertion is, when placing fouldiers before we take off the hind-mon, and ranke them within the difference of the first Protaxis, or fore-fronting, is when we place the light-armed before the front of

the armed, and make them fore-standers, as the File-leaders are.

When we place the light-armed behind, it is called Epitaxis, as it were an afterplacing.

Proflax is or adjoining is, when to both flanks of the battaile, or to one flanke, some part of the hindmost is added, the front of them, that are added, lying euen with the front of the battaile; such addition is called Proflaxis.

Entaxis, or Infition, is when it feemeth good to fet the light-armed within the

spaces of the files of the Phalange man to man.

Hypotaxis, or Double-winging, is when you bestow the light-armed under the wings of the Phalange, placing them in an embowed forme; fo that the whole figure resembleth a three-fold gate, or doore.

> How the motions of wheeling, double, and treble wheeling of the battaile are to be made.

# CHAP. XXXII.

T followeth to thew how a battaile may be turned or wheeled, and how after reduced to the first posture, or Station. When therefore wee would accustome our Troupes to wheele the battaile to

Plagurpalanx or the Brode-Fronted Phalange

Cap:

Orthopbalanx or the Herse

Loxe-Philanx or the priority fronted Balange

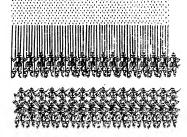


The Fron





Entaxis, or insertion



Proper or Socioning

The first posture

the right hand, we command the right-hand-file to stand firme, & the rest of the fles to turne their faces to the right hand, and to moue close vp to the right hand file. Then to turne their faces, as they were at first : Then the hinder rankes to close forward. Then the whole battaile in that closenesse to wheele about the corner-file-Leader to the right hand. This done, if neede be to reduce it to the first posture, or Station, wee command enery man to turne about his face to the Target, or left hand (that is to looke the contrary way ) Then to wheele about the body, that is, as it turned, closed, & ferred with the front to the right hand fo to returne it agains to the place, from whence it made the wheeling; Then the file-Leaders to stand firme, and the rest to open their ranks behind; Then to turn their faces about, as they stood at first; Then the right-hand-file to stand fast, and therest turning faces to the left hand to open their files; Then to stand; And lastly to turne their faces againe to the right hand: and so shall enery man haue his first posture.

But in case we desire to wheele to the left hand, we command the left-hand-file to stand still, and all the rest to turne their faces to the left hand, and mooue forward close up to the left hand file; Then to turne their faces as they were; Then to gather up the hinder rankes; Then to wheele the battaile to the left hand, and stand; and fors it done, that was commanded. But if restitution to the sirst posture be needfull, we must doe, as we did in returning from the right. For every man must turne about his face to the Pike; Then the whole battaile wheeling about the left-hand-corner-file-Leader must returne to the place, it had; Then all the file-Leaders stand firme, and turne about their faces, and the rest open their rankes in mouing forward and make Alte; Then the left hand file is to stand firme (for it hath the place it first had) and the rest turning their faces to the right hand to open their files, and moue forward, till they have recovered their first distances; then to turne their faces as at first; and so shall every man be in his first posture. Now if we would wheelethe battaile about, to the pike we are to make 2 wheelings to the same side, so will it come to passe that the file-Leaders shall in the change haue their faces turned to the Reare, where before they had them looking out from the front. But in restoring to the first posture we command it to wheele about to the right hand, That is, we give it two wheelings more the same way; So the file-Leaders will hane their faces fet, as at first. Then we command the file-Leaders to stand firme, and the rest to open their rankes behind; then to turne their faces about. Then the right hand file to ftand ftill (for it hath the right place ) and the rest turning their faces to the right hand to march on, till the former distances are regained; then to make Alte. So is the battaile reduced to the

If you would have the battaile turne about to the Target, you are to give contrarie directions; That is, in stead of commanding a double wheeling to the Pike, to command a double wheeling to the Target; Then by making two turnes the contrary way, to viethe like changes, we spake of before.

first Station.

There is likewise a treble wheeling of the battaile, when it turneth thrice to the fame hand, namely to the Pike, or Target. The double wheeling to the Pike transferreth the Souldiers face from the front to the backe of the battaile: The treble wheeling to the Pike bringeth his face to the left flanke. The treble wheeling to the Target contrariwife to the right flank.

Notes:

#### Notes.

Before in the 26 Chapter Ælian discoursed of wheeling, and the kindes thereof. The manner, how it is to be done, is reserved for this place, Incede not therefore remember any thing elfe, besides the words of command.

The words of command in Epistrophe.

The vittermost file on the right or left hand stand firme Therest surne faces (to the side purposed) and march up to the sile standing sirme.

Faces as you were. Close your rankes forward:

Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand

Wheele backe the body to the ground, it first had. File-Leaders fland firme : the other rankes open to their first place.

Faces about ( to which hand you will)

The corner file (to which the turning was ) stand firme the rest open to their first ground. Faces as you were, and order your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee wfed, which were wfed in Epistrophe, there remaineth no more, then to fay Wheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture.

The same forme is vsed, that was held in the former returning wnto the first posture for opening rankes and files.

Ecperispasmos, or treble wheeling.

In this motion the same course is held, that was in the wheeling; But only that you command a treble wheeling. And the returning to the first Posture, or Anastrophe is all one, but for the same difference.

> Of closing the battaile to the right, or left hand, or to the middest.

## CHAP. XXXIII.

F we would close, or thicken the Phalange in the right wing, we are to command I the right-wing-corner-file to ftand still, and the rest turning faces to the Pike to advance toward the right hand; Then to fet their faces as they were, and to gather vp the rankes behinde. In reducing them to the first posture we are to com mand the file-Leaders to stand, and the rest turning about their faces to open



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partial why treate
meane to proceede out
scommonly begunne reconcred their fit.
This rule is to be out of closings, that king his turning.
The light-arme Ranke; then to tu Pike, and the left File-Leaders flas
The other Rank.
Faces as you we.
Faces as you we.
The right-wings
exide to your first she
Faces as you we. turne faces about faces toward the i good torne their) *luige* to the left w their rankes behin If the Philang

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their rankes behinde: Then to turne their faces as they were; Then the rightwing-corner-file to trand (for it hath the right place already) and the reft proceeding onto the Target to follow their Leadets, and obseruing their distances to turne their faces as at hrst. A contrarie course is to be held in thickning the Phi-Lunge to the left wing.

If the Philange be to be closed in the middest, the Diphilange on the right hand must turne their faces toward the Target, and the Diphilange on the left hand their faces toward the Pike; Then mone forward toward the middest of the Philange; Then, after their true distance gained, to fet their faces, as they were, and to ga-

ther vp the Rankes behind.

When we would reduce the Phalange to the first posture, wee command to turne faces about; then to open the Rankes, and all to moue on, but the first Ranke; then to turne their faces againe, and the tight Diphalange turning to the Pike, and the left Diphalange to the Target to follow their Leaders, till they have recourered their first distances. Then to set their faces, as they were.

This rule is to be observed in all turnings about of faces, when they are made out of closings, that the Pikes be advanced, least they hinder the Souldier in ma-

king his turning.

The light-armed are to be taught, and exercised after the same manner.

#### Notes.

I Ashe ix Chapter the distances, that ought to be betwint souldier and souldier, are particularly treated of. This chapter showeth, how they are to be gained, that is, how we are to proceede out of one distance into another. And because the open order is it, that is commonly became withall, it is here taught how from thence to passe to the rest, and to returne to it againe. The end of closings is spoken of before in regard of place they are said to be of two kindes: One to the wing (right or less) the other to the middest of the Phalange. I cannot expersely be meanner better, then by setting down the wordes of command, or direction, which are these in

## Closing to the right wing.

The right-wing-corner-file stand firme

The rest turne faces to the Pike, and move (according to the distance required) to the right hand.

Faces, as you were.

Close your binder ranks forward, and order your Pikes.

### Restoring to the first posture.

File-Leaders stand sirme.

The other Rankes, turne faces about, and open behinde to the first distance.

Faces as you were.

The right-wing-corner-file stand firme; the rest turne faces to the Target, and proceed to your first distance.

Faces as you were; and order your Pikes.

### Closing to the left wing.

It differeth not frem the other, but that the mouing is to the contrarie hand.

Closing

# The Tatticks

Closing to the middest of the Battaile.

The right-wing turne faces to the Target the left to the Pike. Each mone up to the middest of the Phalange, and fland at the distance named. Faces as you were.

Close the hinder rankes forward, and order your Pikes.

Restoring to the first Posture.

The first ranke stand firme.

The reft turne faces about, and open the rankes to the first distance.

The files next the middle settion stand fast, and the right wing turne faces to the Target, the left to the Pike, and move on till the first distance recovered.

Faces as you were, and order the Pikes.

We may not forget Elians generall rule for turning of faces out of Clofings, that the Pikes be alwaies aduanced. For when you come up to the closenesserquired, the Pike vpon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Closing.

> The vie, and advantage of these exercises of armes.

> > CHAP. XXIV.

Hele precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vse in suddaine approches of the enemy, whether hee shew himselse on the right, or left hand, or in front, or in the reare of our march. The like may bee faid of Countermarches ; Of which, the Macedonians are held to bee the inventors of the Macedonian ; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip ( who much enlarged the Macedonian kingdome, and ouercame the Gracians in battaile at Cheronea, and made himselse Generall of Greece ) and likewise his sonne Alexander (that in short time conquered all Asia) made small account of the Macedonian countermarch, vnleffe necessitie forced it; and that they both by the vie of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling vpon the reare, is cause of great confusion; in as much as the hindermost diffnarching toward the front, and making a flew of running away, it more encourageth, and emboldneth the enemy to follow. For feare, and pursuit of the enemy ordinarily accompanieth that kinde of countermarch. But the Lacedemenian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers branely advancing, and opposing themselves, it strikethno small feare, and terror into their mindes.

Of the signes of direction, that are to be given to the armie, and their feuerall kindes.

CHAP. XXXV.

TEe are to acquaint our forces both foote, and horse, partly with the voice; and partly with visible signes, that whatfoeuer is fitting be executed, and one, a sociation that require. Some things also are to be denounced by the Trumpet, for so all directions will be fully accomplifted, and fort to a defired effect.

The fignes therefore, which are deliuered by voice, are most euident, and cleere, if they have no impediment. But the most certaine, and least tumultus cleere, it mey have no impressment. Dut the most certainey and scan turmatuous, are fuch, as are preferred to the eye, if they bee not obfoured. The voice fometime can hardly be heard by reason of the classing of armour, or trampling, and neighing of Horses, or turnult of cariage, or noyle, and consuded sounds of the multitude. The visible signes also become many waies incertain, by thicknes of aire, and duft, or raine, or fnow, or fun-fhine, or elfe thorow ground, that is vneuen, or full of trees, or of runnings. And sometimes it will not be easie to find out fignes for all vies, occasions eftioones presenting new matter, to the which a man is not accustomed. Yet can it not fall out, that either by voice, or by signal, we should not give certaine and sure direction.

Of marching, and of divers kindes of Bastasles fit for a March : And first of the right-induction, of the Coelembolos, and the Triphalange to be opposed against it,

CHAP. XXXVI.

Being now to speake of marching I will first give to understand, that some kind of march is a Right-induction, other some a Deduction on the right, or left hand; And that in a fingle, or double, or treble, or quadruple fided-battaile. In a fingle, when one enemy isfeared; in a double, when two; In a treble, when three; In a quadruple, when the enemy purpose to give to a margin a reverse when the enemy purpose to give on on all fides. Therefore the march is windertaken sometimes in a fingle Phalange, of office in a threefold Phalange, or office in a threefold Phalange, or office in a threefold Phalange, or office in a threefold Phalange.

A right-induction is, when one body of the same kinde followeth another; as if a Xenagy lead, and the rest follow Xenage wise. Or a Tetrarchy lead, and the rest follow according to that forme. It is so called, when the march stretcheth it selfe out into a wing having the Depth much exceeding the length.

Againkt is oppoled the \*Calembela\*, which is framed, when the Antiflomes \*Hollow Againkt is oppoled the \*Calembela\*, which is framed, when the Antiflomes of the \*Desible Letter V as the figure after placed doth teach, In which the from is differenced, & Palange. the reare joyned, and knit together.

For the Right-induction pointing ar the middeft of the enemies battaile, the Calembolos quickly opening before ferueth both to frustrate the charge of the front, and to claspe in , and circumuent the flankes of the right-induction.

The Tatticks

144 \* Treble Pha-14070.

Furthermorea \* Triphalange is to be fet against the Calembolos, one Phalange fighting against one winge of the Calembolos; The second against the other, and the middle, and third forbearing, and expecting a time fit to charge.

Of Paragoge, or Deduction.

CHAP. XXXVII.

Paragoge, or Deduttion is, when the Phalange proceedeth in a wing not by file, but by ranke, having the Commanders or the readers in the Commanders or the Comm but by ranke, having the Commanders, or file-Leaders, either on the right hand, which is called a right-hand-Deduction, or on the left hand, which is called a left-hand-Deduction. For the Phalange marcheth in a double, treble, or quadruple-fide according to the place, and part, it is suspected, the enemy will give on. And both the Paragogies beginning the fight in flanke doe make the length double to the depth. This forme of fight was denifed to teach a Souldier to receive beedfully the charge of the enemy not onely in front, but also in flanke.

of the Phalange Amphistomus.

CHAP. XXXVIII.

\* Double fromted Phalange.

THe Phalange \* Amphistomus (for it is so called, because it hath two fronts, and that part of the battaile, that is fet, and advanced against the enemie, is called a front) Seeing then in this forme the middlemost are ordered backeto backe, and those in front and reare make head against the enemy, the one being Commanders of the front, the other of the reare, therefore it is called Amphifismus. It is of great vie against an enemy strong in Horse, and able to give a hor, and dangerous charge; and principally practifed against those Barbarians, that \*Hustmenthat inhabit about the river steer, whom they also call \* Amphips because they change

we two horses, one flure, the other being ridden vpon.

The Horse battaile to encounter this forme hath a Tetragonall shape, being for Horses in fight. the purpose divided into two broad-squares ( they are broad-squares, that have the front twice as much as the depth ) And thefe. Squares are opposed severally against the divisions of the foot-battaile.

Of the Phalange Antistomus.

CHAP. XXXIX.

THe Phalange \* Antistomus is like the Amphistomus the forme being 2 little altered; so that it accustometh the souldier to relist the seuerall kindes of incurlions of Horse. All that hath beenespoken concerning the former Phalange both for foote, and Horse agreeth with this figure also. Herein they differ, that

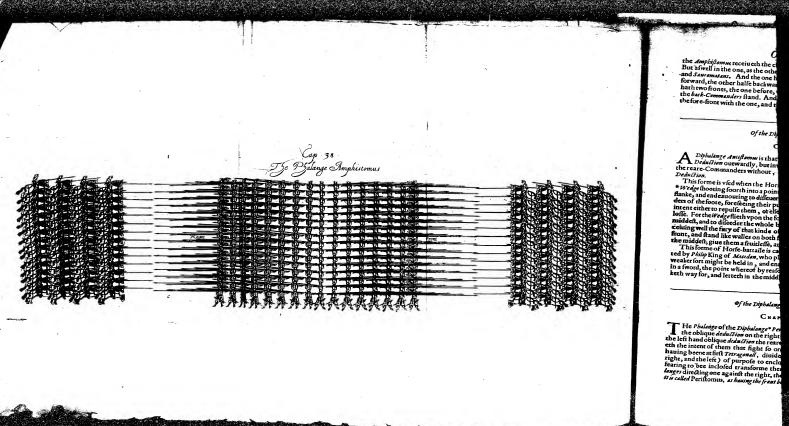
mus in flanke oethe Alms. te their faces This forme :hind, where ge it maketh nge.

ilaced not in nother, and 1 a left-hand

rife. For the followingin ste, the Leaaiddest with age without titude in the landers conzwixt either aces toward

was inuenby them the ia fpeare, or siercing ma-

onin a wine. ers without. figure (bewg to charge. wings (the . And they wching-Pha-I berefore



the Amphistomus receiveth the c But aswell in the one, as the other and Saurematans. And the one h forward, the other halfe backwar hathtwo fronts, the one before, the back-Commanders stand. And

Of the Di

Diphalange Antistomus is that A Deduction outwardly, but in the reare-Commanders without,

Of the Diphalane

CHAP

He Phalange of the Diphalange\* Per the oblique deduction on the right the bleft hand oblique deduction on the right the left hand oblique deduction in the reare eth the intent of them that fight fo or hauing been eather? Tetragonal, divide right, and the left) of purpose to enclose right, and the left) of purpose to enclose the right of the deduction on each of the right, the danger directing one against the right, the six called Peristomus, as having the front has the called Peristomus, as having the front has the called Peristomus.

Of Elian.

the Amphistomus receiveth the charge in front, and reare, the Antistomus in flanke. But as well in the one, as the other, they fight with long Pikes, as doe the Alim, and Sauromatans. And the one halfe of the souldiers in the flies turne their faces forward, the other halfe backward; so that they fland back to backe. This forme hath two fronts, the one before, where the file Leaders, the other behind, where the back Commanders fland. And being also divided into a Dipbalange it maketh the fore-front with the one, and the after-front with the other Phalange.

Of the Diphalange Antistomus.

CHAP. XL.

A Diphalange Anissomus is that, which hath the file-Leaders placed not in Deduction outwardly, but inwardly face to face one against an other, and the reare-Commanders without, one halfe in a right, the other in a left-hand Deduction.

This forme is vied when the Horfe giue on and charge Wedge wife. For the \*Wedge thooting foorth into a point, and hauing the Commanders following in flanke, and endeauouring to diffeuer, and breake the front of the foote, the Leaders of the foote, forefeeing their purpole, place themfelues in the middeft with intent either to repulie them, or elict of giue them a thorough paffage without loffe. For the Wedge flicth upon the foote in hope to charge the multitude in the middeft, and to difforder the whole battaile: And the foote Commanders conceiuing well the fury of that kinde of forme, leane a little space betwike either front, and stand like walles on both sides, and iointly turning their faces toward the middest, giue them a fruitlesse, and empty passage.

This forme of Horse-battaile is called a Wedge by Tacticks, which was inuented by Philip King of Macedon, who placed his best men before, that by them the weaker fort might be held in , and enabled to the charge: as we see in a speare, or in a sword, the point whereof by reason of the sharpnesse quickely piercing many.

keth way for, and letteth in the middle blunt iron.

Of the Diphalange called Peristomus.

CHAP. XLI.

The Phalange of the Diphalange\* Peristomus proceedeth by deduction in a wing, the oblique deduction on the right hand having the file-Leaders withour, the lest hand oblique deduction to reare. Commanders within. The figure shewest the intent of them that fight so ordered. For the battaile going to charge, having beene at first Tetragonal, divident it selfe into two oblique wings (the right, and the lest) of purpose to enclose the adverse Japare-battaile. And they fearing to bee inclosed transforme themselves into two severall marching. Phalanges directing one against the right, the other against the lest wing. Therefore it we called Peristomus, at having the frant bent against the cump both water.

144 Treble Ph

Furthern fighting ag the middle

Parabudhand, what a left-hap ple-fidea And ho to their heedfall.

\* Double from ted Phalange.

\* Horfemen that whe two horfes, one frace, the ther i eing ridden when.

> \* Doube flanked Phalange.

of Ælian.

Of the Diphalange called Homoiostomes, and of the Plinthium.

CHAP. XLII.

\* A double likefronted Phalange. A Diphalange\* Homoiossomus is so named because a whole file (that is 16 men) mouing by it selfe, another file followeth it. And it is therefore called Homoiossomus, because they that follow, follow in a like figure.

\* A fouresidedbas:aill square of men and ground. This kinde is opposed against the Plinthium. \* Plinthium is a forme of Battaile, that hath the sides equall both in figure and number. In figure because the distances are energy where equall; In number because there are as many men in length, as in depth. In this foure-sided-Battaile are none in the stankes, but armed, without Archer, or Slinger to helpe. When therefore two Phalanges march together, one by another, and both haue their Leaders either in a right-hand, or less thand Deduction it is called a Diphalange Homoinstone.

Of the Diphalange Heterostomus.

CHAP. XLIII.

\* A double Phalange with conerary flanks.

A Diphalange\* Heterostomus is that, which proceedeth by Deduction, having the Leaders of the former Phalange in a right-hand-Deduction, and of the following Phalange in a left-hand-Deduction: so that the battailes march counterchangeably, one having the Leaders in one flanke, and the other in the other: and to therest.

Againe of the Battaile called a Rhombe, and of the foote-halfe moone to encounter it.

CHAP. XLIV.

The battaile framed informe of a Rhombe, was first innented by Illom the Thessalam, and was called sle after his name; and to this forme he exercised and accustomed the Thessalam. It is of good vie, in that it hath a Leader at each ye corner, at the point the Captaine, of the Troupe, the reare-Commander behinde, and on either side the slanke-commanders. The foote battaile, sittest of affront this, is the Mensilae, or Cressalam, having both the wings stretched out, and in them the Leaders, and the middest imbowed to invition and wrapin the Horsemen in their giving on. Whereuponthe Horsemen ply the foot a farre off with slying weapons, after the manner of the Tarenines, seeking thereby to discovered and disorder their circled strands of matching. Tarensum is a City of Italy, the Horsemen whereof are called Acrobolists, because in charging they first cast little Darss, and after come to hands with the enemy.

Of the Herse-battaile Heteromekes, and of the Plagtophalange to be opposed against it.

CHAP. XLV.

He Hotse battaile \* Heteromekes is that, which hath the depth double to the \* ARegh. It is profitable in many respects. For seeming to cary but sew in so small a bredth it decembes the enemy, and it easily breaketh his forces with the thicknesse, and strength of the embattailing, and may without perceiving, bee lead thorough smight, and narrow passages.

The Foot-battaile to encounter it is called the Plagiophalangs, or broad fronted Battaile. For being but flender in depth it beateth fronth and extendeth it felfe in length; so that, albeit it be broken in the middeft with the charge of the Horse; yet is nothing broken, but a little of the depth; and the fury of the Horse is carried not vyon the multitude of the foote, but surgifting and immediately, into the open field. And for that cause is the length thereof much exceeding the depth.

Of another kinde of Rhombe for Horsemen, and of the foote-Battaile Epicampios Emprosthia to encounter it.

CHAP. XLVI.

Nother fort of Rhomboides there is, whereof I need fay no more, but that it fileth, and ranketh not. For I have before the wed the vie, and that Heon the Thotfallan was the inuentor, and that I fon Medean husband most put it in practife. The vie thereof is great being directed, and lead, in the joure corners by the Captime, the Lieutennus, and the two flanke-Commanders. It is commonly fashioned of Archers on Horsebacke, as the Armenian, and Perfus manner is.

Against it is opposed the sorte-battaile called \* Epicampies Emprebbia, because \* The last the circumdustion of the front is like an embowing. The end of this some is to de-front the archers on Horsebacke either by wrapping them in the voide space of the front, as they charge, and giue on vpon the spurre, or else disordering them first with their wings, and breaking their sury, by ouerthrowing them finally with their rankes about the middle Ensigners. This kinde of Battaile was deutled to entrappe and beguile. For opening the middle hollownesse is maketh shew but of a sew, that march in the wings, having notwithst anding thrice as many following, and seconding, in the reare. So that, if the wings bee of power sufficient for the encounter, there needeth no more; if nor, tetting eafuly on either side, they are to ioune themselves to the buske of the Battaile.

Of the foot-bastaile called Cyrte, which is to be fet against the Epicampios.

CHAF. XLVII.

₹ The conuextbattaile.

THe Battaile to be opposed against the Epicampios is called \* Cyrte of the circumferent forme. This also maketh semblance of small forces by reason of the convexitie of the figure. For all tound things appeare little in compasse; and yet stretched out in length, and singled, they proue twice as much, as they appeared to be: as is culdent in pillars, which are round; and therefore in fight thew the one halfe, and conceale the other.

The greatest piece of skill in embattailing, is to make a shew of few mento

the enemy, and indeed to bring twice as many to fight.

Of the Tetragonall Horfe-battaile and of the wedge of foote to beopposed against it.

CHAP. XLVIII.

He \* Tetragenall Horse's attaile is square in figure, but not in number of men
For in Squares the number is not alwaies the same: and the Generall for his advantage may double the length to the depth. The Persians, Sicilians, and most of the Grecians doe affect this forme, and take it to bee casie inframing, and bet-

Again Rit is opposed the Phalange called \* Embolos, or Wedge of foote, all the fides confifting of armed men. This kinde is borrowed of the Horse-mans wedge. And yet in the Horse-wedge, one sufficerh to lead in front, where the Footewedge must have three, one being vnable to beare the fway of the encounter, So Epaminondas the Theban fighting with the Lacedemonians at Mantinea, ouerthrew a mightie power of theirs by casting his armie into a Wedge. It is fashioned if the Antistomus Diphalangr in marching joyne the front of the wings together, holding them open behind like vnto the letter A.

> Of the foot-Battaile called Ploefium , and of the winding, or faw-fronted foot-battaile to encounter st.

> > CHAP. XLIX.

He Battaile Plassum hath the length much exceeding the depth. And it is called Plassum, when armed foore are placed on all sides, the Archers, and Slingers, being throwne into the middeft. Against this kinde of Battaile is set the winding fronted-battatle, to the end that with the vnequall figure, they may

traine out those of the Plasium to cope with the foremost of the winding-frontedbattaile, and by that meanes diffolue, and diforder the thickneffe of the fame. And the file-Leaders of the winding-battaile are to obserue, and marke the file-Leaders'of the Piafium, that if they still maintaine their closenesse, and fight ferred, they also incounter them in the like forme; if the Plaftum file-Leaders seuer themselues, and spring out from their maine force, then they likewise bee ready, to meet them man to man.

Of Hyperphalangefis, and Hyperkerafis, and of Attenuation.

CHAP. L.

Treephalangelis, or over-fronting is, when both usings of the Phalange over-reach the enemies front. Hisperkerasis, or overwinging is, when with one of the wings we ouer-reach the front of the enemy. So that hee, that ouerfronteth, ouerwingeth, but hee, that ouerwingeth, overfrontelb not. For they, that match nor the enemy in multitude, may yet ouerwing them.

Attenuation or leffening is, when the depth of the battaile is gathered vp, and

in flead of 16 men a fmaller number is fet.

Of conveying the Cartage of the Army.

CHAP. L.I.

"He leading of the cariage, if any thing elfe, is of great importance, and requireth a speciall Commander. It may bee conueyed in fine manners, ejther before the Armie, or behinde, or on the one flanke, or the other, or in the

Before the Army, when you feare to bee charged behind. Behind the Army, when you would leade toward the enemy. When you feare to beecharged in flanke on the contrary fide. In the middeft, when a hollow-Battaile is needfull and fit.

> Of the words of Command, and certaine obsernations about them.

> > CHAP. LIL

Ast of all wee will briefly repeate the words of direction, if we admonish, first that they ought to be short, then that they ought to be without double-fignification. For the Souldiers, that in hast receive direction, had neede to take heede of doubtfull words, leaft one doe one thing, and another the contrarie. As for the

The Tatticks

purpose: If I say turne your face, some it may be, that heare mee, will turne to the right, some to the less thand, and so no small confusion follow. Seeing therefore these words turne your free import a general signification, and comprehend turns not to the right, or less hand, we ought in stead of saying turne your face to the pik, to pronounce it thus: To your Pike turne your face, that is, we ought to set the particular before, and then inserte the generall. Like reason is, if you say, turne about your face, or countermarch. For these are also general words; And therefore wee should do well to set the particular before. As to the Pike turne your face about, or to the Target surne your face about. Likewise the Lacedemonian countermarch, not the Counter march Lacedemonian. For if you place the word Countermarch fiss, some of the Souldiers will happily fall to one kind, other to another kinde of Countermarch. For which cause words of double sense are to be avoided, and the special to be set before the generall.

Of silence to be used by Souldiers.

CHAP. LIII.

Bytaboue all things filence is to be commanded, and that heed be given to directions: As Homere specially signifies in his discriptions of the Gracian and Trains signs.

The skilfull Choef-taines pressed on, guiding with carefull eie Their Armed troupes, who sollowed their Leaders ssiently. Tou surely would have deem'd, cach one of all that mighty shronge Had been bereft of speach, so briddled be his beed sulfitongue, Fearing the dread Commanders checke, and awfull best's among. Thus march's the Greekes in silence, breathing slames of high deser-And servent scale, to backe their spirads, on foes to wreake their inc.

As for the disorder of the Barbarians he resembleth it to birdes saying.

As sholes of fowle, geese, cranes, and swannes with necks far stretched out, Which in the slumy sennes Casslers winding streames about Sheare here, and there, the sliquid skie, sporting on wanton wing. Then fall to ground with clanging noise, the sennes all ouer ring: None other wise to Tvolans slift the field with heaped sounds Of broken, and confused cries, each where sumust abounds.

And againe:

The Captaines mat stall out their Tronpes ranged in goodly guife; And foorth the Troians pace like birds; which lade the aire with cries. Nat fo the Grockes, whose silence breathed slames of high defire. Feruens in scale to back their friends, on foes to wreake their ire.

CHAP.

The words of Command.

CHAP. LIIII.

Thus then are we to command.

O your Armes.
Stand by your Armes.
Cariage away from the battaile.
Marke your directions.
Seperate your feltes,
Aduance your Pikes.
Fileand ranke your feltes,
Looke to your Leader.
Reare Commander order your file,

& Keepe your first distances.

b Faces to the Pike, moue a little further, stand so, as you were,
b Faces to the Target, mone a little further, stand so.

b Faces about to the Pike, moue a little further, fland so.
c Double your Depth. To your first posture.

c Double your Length. To your first posture.
d The Lacedemonian countermarch. To your first posture.
d The Meedonian countermarch. To your first posture.

d The Maccdonian countermarch. To your first posture.
d The Chorean countermarch. To your first posture.
e Battaile wheele to the Pike. To your first posture.

Battaile wheele to the Pike. To your first posture.

Battaile wheele about to the Pike. To your first posture.

These precepts of the Art Tatificke (most innincible Cesar) I have laide out to your Mairs, which will be a meanes of fasety to such, as shall viethers, and of the outsthrow of their enemies.

N 4

The

151

a Before cap. 113 b Before cap. 25.

e before cap. 26.



# THE EXERCISE OF THE ENGLISH IN

the feruice of the high and mighty Lords, the LORDS the ESTATES of the vnited PROVINCES in the Low



H E Soldiers are divided into two kindes, Foote and Horfe. The Foote againe are of two kindes; Pikemen and Mulketiers.

Pikems are armed with a head-peece, a Curace and Tales defensive, and with a Pike of fifteene footelong, and a Rapier offensive. The Armour is all yron; the Pike of Ashen wood for the Steale, and at the vpper end an yron head of about a handfulllong with cheekes about the length of two foote, and

at the burt-end a round firong locket of yron ending in a pike, that is blurt, yet flaspe enough to fixe to the ground. The forme thereof is expressed in the grauen figure.

The Musketier hath a head-peece for defence, a Musket, the barrell of the length of 4 foote, the bore of 12 bullets to the pound; a Bandelier, to which are fastned a convenient number of charges for powder (fometimes as many as 15 or 16) a lether bagge for bullets, with a pruning yron; a Reft for the Musket with an yron forke on the vpper end to support it in discharging, and a pike on the nether end to sticke into the ground; lastly, a Rapier. The figure of this armour also is here inserted.

Thefe foldiors, both Pike-men, and Musketiers, are divided into Companies; and every Company conflifteth, halfe of Pikes, halfe Musketiers. The Companies are fome more in number, fome leffe. Some reach to 300 men, fome 200, fome 100, fome 900, fome 800, fome 70. Euery Company hath thefe officers of the field: A Captaine, a Lieutenant, an Enfigne, a Scrieants, 3 Corporalls, two Drommes; and for other vies a Clerke, a Surgion, and a Prouoit.

Companies are compacted into Regiments; and the Regiments commanded by Coronells. Regiments conteine not alwaies a like number of Companies, fome hauing 10, fome 11, 12, 13, 14, 15, fome 30 Companies and aboue. In euery Regiment are a Coronell, a Lieutenant Coronell, a Sericant Maior, all officers of the field; a Quarter-maßter, and a Prouost-martiall for other imployments. It hall not be greatly to the purpose to mention higher officers, then Coronells, my principall intent being no other, then to set downe the armes and exercise of our Nation in the said vnitted Provinces. Their armes are spoken of.

First both Pikes and Muskets are ordered into files of 10 deepe. The Muske-tiers are sometime placed before, sometime in stanke, sometimes in the reare

of the pikes. To exercise the motions, there are two diff ances to be observed.

The firthis when every one is diftant from his tellow 6 foote fquare, that is in

file and ranke 6. The fecond is when enery Souldier is 3 foote diftant one from the other aswell

infile, as in Ranke.

And because the measure of such distances cannot be taken so willly by the eve. the distance of 6 foot betwirt the files is measured, when the Souldiers stretching out their armes doctouch one an others hands: and betwixt the Rankes, when the ends of their pikescome well nighto the heeles of them; that march before. And the measure of 3 foote betwixt the files is, when their elbowes touch one another; betwixt the rankes, when they come to touch theends of one ano-

For to march in the field, the distance of 3 foote from file to file iskept, and of

6 foote from Ranketo Ranke.

To order themselves in Battaile, as also to goe towards the enemy, the distance of 3 foote in file, and ranke, is observed; and likewise to conversion or

The Mulquettiers also going for to shoote by Rankeskeep the same distance of 3 foot, but going to skirmish they goe ala Disbandade, which is out of order.

There is yet another fort of diffance, which is not vied, but for to receive the enemy with a firme stand, and serueth for the pikes onely (for the Musquettiers cannot be so close in files, because they must have their Armes at liberty ) & that is, when every one is diffant from file to file a foote and a halfe, and 3 foote from Ranke to Ranke. And this last distance is thus commanded, Close your seines throughly. But it is not to be taught the Souldiers, for that, when necessitie shall require it, they will close themselves but too much, of their owneaccord without

To begin therefore to doe the exercises, the Company is set in the first distance, to wit of 6 foote in file, and ranke, and thus is said

Stand right in your files. Stand right in your rankes. > which are often to be veed. Silence.

These are the generall words of Command

To the right hand. Asyou were.

To the left hand. As you were.

Tothe right hand about. To the left hand as you were.

To the left hand about. To the right hand as you were. You must note that when they are commanded to be as they were, they must returne thither, from whence they parted; and if they turned to the right hand, they must returne to the left, and fo in countermarch.

To

To the right double your rankes. Rankes as you were.

To the left hand double your rankes. Rankes as you were.

To the right hand double your files. Files as you were.

To the left hand double your files. Files as you were.

With halfe files to the right hand double your Rankes. Halfe files as you were.

With halfe files to the left hand double your Rankes. Halfe files as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right hand or left at discretion as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

To the right or left hand as you were.

Close your Files Close your Rankes Cto 3 foote distance.

Vaderfrand that in Clofing from the outfides to the middle the Soldier is to fland in his diftance of 2 foote in file, and not closer.

To the right hand wheele. To the left hand wheele.

Open your Rankes backwards in your double distance to wit at 12 foote, and this for a fingle Company.

Rankes as you were, fe, at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outlides have taken their diffances, and fo shall the rest remaine close vntill every Ranke or File have taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outmost file fandeth fill, and the reft close to that file.

For the Pike with a firme fland.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge your Pikes. Order your Pikes. Traile your Pikes. Cheecke your Pikes.

More for the Pikes first with a firme stand and then marching.

Charge your Pikes.
Slope your Pikes.
To the right hand charge your Pikes.
Slope your Pikes.
To the left hand charge your Pikes.
Slope your Pikes.
Charge your Pikes to the Reare.

Slope your Pikes.
Order your Pikes.
This must be observed charging your Pikes with a firme stand to set the right soot behind, and that ging the Pikes marching to set the left soot before.

# For the Musquet.

T He Postures in his Excellencies Booke are to be observed; but in exercising you must onely we these three terms of direction.

Make ready. Prefent. Give fire.

Give jure.

Your Mus(quettiers must observe in all their motions to turne to the right hand, and that they carry the mouth of their peeces high, as well when they are shouldred, as in pruning, and also when they hold their pannes garded, and come type to give fire.

In advancing towards an Enemy, when they doe not skirmish loose and disbanded, they must give fire by Rankes after this manner.

Two Rankes must alwaies make ready together, and aduance ten paces for ward before the body, at which distance, a Sergeant (or when the body is great some other officer) must stand, to whom the Musquettiers are to come vp before they prefent, and give sire, first the first ranke. And whilest the first gives sire, the second Ranke keepe their Musquett close to their Rests, and their pannes garded, and assoon, as the sirst are fallen away, the second presently prefent, and give fire, and fall after them.

Now affoone as the first two Rankes doe mone from their places in the front: The two Rankes next them must vushoulder their Musquets, and make ready, so as they may aduance forward ten paces as before affooness euer the two first rankes are fallen away; and are to doe in all points as the former. And all the other Rankes through the whole diuition must doe the same by twoes, one after another.

A manner

# A.manner there is to give fire retyring from an Enemy, which is performed after this forts.

As the Troope marcheth the hindermost ranke of all keeping still with the Troope is to make ready, and being ready, the souldiers in that ranke turne alto-Thomas gether to the right hand and give fire, marching presently away a good round the Roome pace to the front, and there place themselves in ranke together inst before the front: As soone as the first ranke turne to give fire, the ranke next makes ready, and doth as the former, and so the rest.

We giue fire by the flanks thus. The vppermost file next the Enemy must be The commanded to make ready, keeping still along with the body, till such time, as flash, they be ready, and then they turne to the right, or left flanke) and giue fire altogether. When they have discharged they stirre not, but keepe their ground, and charge their Peeces againe in the same place, they stand. Now as soone as the forestial file doth turne to giue fire, the vttermost next it makes readyalwaies keeping along with the Troope till the Bringer-up be past a little beyond the Leader of that sile, that gaue sire last, and then the whole sile must turne, and giue sire, and doein all points as the sirst of the rest one after the other. A Sergeant, or if the Troope be great some other better qualified Officer must sand at the head of the sirst sile, and assoone as the second sile has giuen sire, and hath charged, he is to lead forward the first sile yo to the second sile, and so to the rest one after another, till he hath gathered yo againe the whole wing, and then he is to joyne them againe in equall front with the pikes.

Laft of all the Troope or whole wing of Mulquettiers makes ready altogether, The many in and the first ranke without advancing gives fire in the place they fland in, and from speedily, as may be, yet orderly falls away, all the rankes doing the same successive many be a series and the same as a series and the same successive many be a series and the same successive many beautiful to the same successi

Thus much of the armes and exercise of the foote:

The horse ensue.

#### The order and discipline bolden in Horse-troopes, or in the Cavalry.

THE Casalry hath for his Cheife the Generall, the Lieutenant Generall; and the Comiffary generall.

To the Cavalry there is a Quarter-mafter generall, and a Pronoft generall belonging; the Inflicereforteth to the Councell generall of warre of the Atmy. The Cavalry is of two forts. Has quelaffers, and Cavaffers.

The first haue for defensive arms, the Curacs pistoll proofe, and a light headpeece. For offensive the Carbine of 3 soote, 3 inches length, and the bore of 20 bullets in the pound, and Pifols like vinto the Carassists.

The Curshiers have for defending Armes a compleat armour, the Cursee pitfoll proofe. For offending two pitfolls having the barrell of 26 inches in length, and the bore of 36 bullets in the pound. See the figure of Armes.

For the order in Regiments the 40 Companies entertained by the States doe make eleuen Regiments.

The Regiment of the Generall hath alwaies the Vantgard, the others alternatively

The enemy before the Fantzard.

Advancing

natively and by turnes, and he that hath it this day, the next day after hath the Reare, the rest following in the same fort.

Those which command the Regiments are called Goronells. The Regiments are compounded of 3, or 4 Companies (of 3 at the least) and the Coronells Company marcheth alwaies on the left wing of the Regiment.

The Captaines receive orders from their Goronells, as these from the Com-

missary Generall. All the Companies are divided in a equall parts, which are called Squadrons. and distributed to the three chiefe officers; Captaine, Cornett, and Lieutenant. having each of them adjoyned an old Souldier, which they docknow to bee of more desert, called a Corporall.

Marching in the field, every Officer marcheth at the head of his Squadron, the Lieutenant excepted, which marcheth behind with the Quartermafter; and the third Corporall at the head of the Lieutenants Squadron.

The Companies are divided by files, and rankes, the file , deepe, and no

more, how strong soeuer the Company be. They observe that in marching in battaile they must be close together, and to doe the Motions there must be o foote distance from one Horseman to another.

The Companies being in battaile, there must be 25 paces distance left between enery Company, and so betwixt enery Regiment at the leaft.

# The exercise of Armes for the Cavalry.

To open the Squadron you must first open the rankes and after the files. To close the Squadron, you must first close the files, and after the rankes. There be two forts of distances betwixt the files; the one close, and the other

In the Close there must be no distance or intervalls betwixt the files, to the

open there must be 6 foote betwixt every file. Likewisethere must be two sorts of distances betwixt the rankes; the Close, which must be without intervall or streete; and the Open, which must be six

foote distance. In a march it must be understood, that the rankes must never be more opened,

then the open distance of 6 foote.

And to the end that the Troope may march in good order, and observe well their distance betwixt the rankes, without that the last may be forced to runne or goe to fast, there must be heed taken, that so soone, as the first rankes begin to march, all the Troope, and the Rearealfo at one time march.

### The words of Command are

Open your Rankes. Open your files.

Stand right in your rankes. Stand right in your files.

To the right hand. As you were.

To the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left handabout. To the right hand as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right or left hand as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

Close your files. Close your rankes.

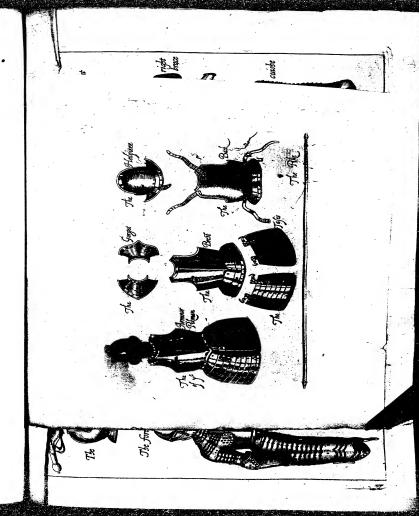
To the right hand wheele. To the left hand wheele.

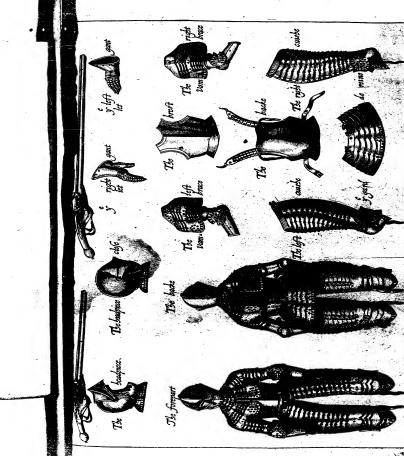


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#### Faults escaped in the Booke.

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Q. •\*



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# THE ART OF EMBATTAILING

, AN

# ARMY.

0 R,

THE SECOND PART OF ELIANS TACTICES.

WITH NOTES VPON EVERY CHAPTER.

By Capi. IOHN BINGHAM.



LONDON:

Printed by IOHN BEALE and THOMAS
BRYDENELL for RALPH MAB.
1629.





TO THE RIGHT VVOR-SHIPFVLL SIR HVGH HAMERSLY, Knight, one of the Aldermen and Coronels of the Honorable City of LONDON and President of the Martiall Company, Exercising Armes in the Artillery Garden in LONDON.

TO CAPTAINE HENRY VVALLER. NOW CAPTAINE OF THE SAID COMPANT.

AND

TO ALL THE REST OF THE Worthy Captaines and Gentlemen of the faid Company.

Captaine I. B. wisheth such valour and experience, as may make them victorious against all forts of Enemies.

Worthy Gentlemen:



Alian, Ipurposed to have kept to mine owne priuate vee, and not to baue presented them to the view of the world. But now being to depart from you, and to iourney into a farre Countrey, and finding your

kindnesse and love toward me such, as I was not with any reason to expect, I altered my minde, and having nothing A 2

The Epistle Dedicatory.

else to offer vnto you, I resolved to make this a monument of my thankefulnesse to you, and a testimony of my desire to doe you the best service I am able. For my paines herein, I leave them to the judgement of any learned Reader; for the profit of the Treatife, I say no more but this, it containeth the practise of the best Generals of all antiquity concerning the formes of Battailes. And whereas many hold opinion, that it forteth not with the vie of our times, they must give me leave to be of another mind: Indeed our actions in Warre are onely now a dayes and fieges oppugnations of Cities: Battailes wee heare not of, Jaue onely of a few in France, and that of Newport in the Low-Countries. But this manner will not last alwayes, nor is there any Conquest to be made without Battailes. He that is Master of the field, may dispose of his affaires as he listeth: hee may spoyle the Enemies Countrey at his pleasure, he may march where he thinketh best, he may lay siege to what Towne be is disposed, he may raise any stege that the Enemy bath layed against him or his. Neither can any man be Master of the field without Battaile, in ordering where f, that Generall that is most skilfull, seldome misses of winning the day: experience of former times cleares this. I should exceede the compasse of an Epistle if I brought the examples, which serve to this purpose. Now for the skill of ordering Battailes, it is not to be learned out of the practife of our dayes, wherein when we come into the field, we make sheries, and musters rather, then observe any formes of Battailes for vse: Battailes must not be alwayes of one figure. The wife Generals of ancienter times, fashioned their battailes according to the range, which they jaw the Enemy had before taken vp. The place often maketh an

The Epiftle Dedicatory.

alteration in that forme, which otherwise would ferue to our purpose. He that is acquainted but with one forme, if he be forced to change that upon the sudden, disordereth butroopes, and bringeth all into a confusion. The knowledge of the formes of battailes being then so necessary for a Generall, this little Pamphlet must needs be weicome to them that defire the mannaging of fields, and the command of Armies. For bere have you all formes expressed, together with their vie; fo that the Generall that is acquainted with the practife of these precepts, (hall not be to seeke to make transmutation of his battaile, into what forme somer necessity shall require, or that upon the sudden. As for them that hold, that great Ordnance will not admit any of thefe ancient formes in our dayes, I bold that for a dreame, and not worthy the answering; since the invention of great Ordnance, we never read of any forme of battaile disordered thereby . Some flaughter bath beene made by great Ordnance, and the Army that suffred by great Ordnance, bath beene forced the looner to ioyne with the Enemy; when the Armies are soyned, great Ordnance bath and must sitstill, and looke about as an idle spectator, serving for no other vse, then for a pray to him that gaineth the field. Now for (mall shot, it succeedeth in the place of the lightarmed of antiquity. By them a Battaile may be broken, if they be not repressed, and themselves cut off in time. But what is said of them, that may not be said of Bowes and Arrowes? The greatest fields that we gained against the French, were gained onely by our Archery. To fay nothing of other Nations, that had the skill of shooting: so that no reason can be alleadged why the formes of Battailes wsed by antiquity for advantage, may not be as well vsed in our dayes.

# The Epistle Dedicatory.

dayes. How soever the matter standeth, my desire is, that the Treatise may with your favourable acceptance beare your names in the Front thereof. Not because I thinke it worthy of your Patronage, but for that I would be use it appeare to the world, how much I esteeme of your kindnesse (as I said) and of your lue, which you expressed toward me in my taking leave of the City. The Lord of hostes have you in his keeping.

Your feruant, as heretofore,

to doe you feruice,

IOHN BINGHAM.



# OR THE ART OF EMBATTAL-LING ARMIES.

The broad fronted Phalange, the deepe Phalange, or Herse, and the vneuen-fronted Phalange.

#### CHAP. XXX.



Lagiophalange, or the broad-fronted Phalange, is that, which hath the (2) length manifoldly exceeding the depth.

(3) Orthiophalange, or the deepe Phalange (now commonly called the Horfo) is that, which proceedeth by a (4) winge, having the depth much exceeding the length. In generall speech cuery thing is called (5) Parametes, which hath the length more then the depth; and that which hath the depth more then the length

(6) Orthica: and so likewisea Phalange.

The i halange (7) Loxe, or vneuen-fronted, that is, which putteth forth one of the wings (which is thought fitteft) rowards the Enemy, and with it begins the fight, holding off the other in a convenient diffance, till opportunity be to advance.

### NOTES

His Chapter and the next, seeme not to hold their right place: for being set before the manner how to wheele, and likewise before closens are seen as a constant of the 'Phalange (to which Bautalian motions, or to one of them, the manner of wheeling and closure, appertaine) they interrupt the method or orderly handling of the said motions; which method which curiously observed himself, so which seemed wheeling and closure, rehearing the through his whole Booke. Besides, Line the a Chapter, rehearing shortly the appellations or words of Military clie pine; he placeth these formes after Induction and Deduction: I take in the reference, that their proper place is after the 37 Chapter, the rather, because it the formes of Marches from thenceforth handled, are either squares of the one kinde or other, or else spring our of these Squares. I note become

The first is called 1. Plagiophalanx, or the broad-fronted Phalange.) The word major is often interpreted for ablique, which signification it cannot have heere; the oblique Phalange being in this Chapter tearmed by the name of well, and vet distinguished from the Plagiophalanx. They that translate Plagiophalanx, the transuerse or over-thwart fronted Phalange, agree better with Elians meaning, because it meeteth the enemy with a front trans-uerse, and drawne out in length, and directly opposite against him. I have rendred it the broad fronted Phalange as more fitting the English tongue: It may also be called the long-fronted Phalange. For breadth (I have remembred it before) and length of a Phalange are all one: In this fense is the word madges vied by Arrian being applied to the manner of bearing of a Pike. He telleth. that Alexander transported his Army ouer the river Ister, to invade the territory of the Getes; and hath thus, The number of those that passed the riner with Alexander, were about 1500 horfe, and 4000 foot. They paffed in the night, and landed where the Corne was high, which was the cause that their arrivall was not descried. As soone as the morning appeared. Alexander led them through the Corne fields ; Commanding the foot, that bearing downe the Corne with their Pikes held a thwart, waylan rais sacresus, they should march into the Champeione. The manner of their bearing of Pikes (as I interpret it) was this; They tooke the Pikes in the midft with both their hands, and fo bore them out, not with the points forward, but croffe and paralell the front of the Phalange, that the file leaders with one joynt force might ledge and beare downe the high-growne Corne, and make easier passage for those that followed. If they had carried them out flope, or oblique (which is the other fignification of the word) it had beene no more, then the particular force of every man a part, that held his Pike floping; besides that, they would have beene intangled in the Corne; whereas the bearing of them croffe parrallell with the front, was the joynt force of fo many file-leaders, as did thrust forward against the Corne. Therefore as when the Pike is borne in full length crosse the front of the battaile, the posture of the Pike is said to be mains, so is a Phalange termed states, that hath a front stretched out in even length, and opposed against the even front of the adverse battaile of the enemy.

2. The length manifoldly exceeding the depth. Elian fets not downe exprefly any proportion of the excesse of the length about the depth, onely he faith, it must manifoldly exceed the depth: We must take it then, that the excesse of the length must be at the least threefold; for thrice fals into the 4. Phalange Mar appellation of manifold. A Macedonian fourefeld Phalange may justly challenge this name, being 1024 men in length, onely 16 in depth. And likewise a Phalangarch led feuerally and by it felfe, as having 256 men in length, but 16 in deoth. The reft of the bodies of the fourefold Phalange, till you come downe to a Pentecofiarchy, albeit ranged by themselves, are likewise Plagiophalanges, or broad-fronted baftacles. A Pentecofiarchy hath onely twice fo many in front, as in flanke (as 32 in front, 16 in flanke) and there-theoretical force commercian to valer the name of a broad-fronted Phylange. So that the habita it 11 in flanke (as 12 in flanke) and there is the phylander of the phy let the battaile be as long as you lift, having but the ordinary depth, it ftill the ordinary is accounted a Plagiophalange. When it is but twice to long in from as in dephisse. flanke, it cannot deserve that name, but it is to be termed rather a Square of ground, because the flanke in a square of ground taketh vp as much ground as the front. To the Battaile-broad-fronted, is next added the Phalange, called 3. Orthiophalange, or Herse] which albeit it have the length and depth

vnequall, as hath the Placiophalange, or broad-fronted Phelange, yet must the depth manifoldly exceede the length, which is contrary in the Plagiophalange. This faith Elian proceedeth in

wing.) To proceede in a Wing is to march on with a parcell or one \* Elime 136. Lat body of the Army, name'y with a certaine number of files (as with a Transcription) trarchy, b Taxis, or Syntages) and to follow with the rest in like manner, so \$77. that the whole army holdeth no proportion of length or breadth to the depth. Elizacq. that the whole army holdern no proportion of tengen or present to the approximation of the state and by Arrian, Ballin oznay, a deepe phalange, because the forme of it ariseth A body of 8 out of the depth of the embattailing, as I have noted vpon the fenenth Chap- file. on other sept of the constituting as a nauemoted upon the recently constituting of leasing the forces writers expressely the words of leasing the ding that stops and september that is, in a wing; whereas the other kinde with a bioder-site as large front (I meane the broad-fronted Phalange) is faid to be led fainthapper, dryling. and sim querya, and bis parayya, in a Phalange, and interiore, but the ment in front, Greeke, 550.4. and sim observe, and se seconyra, in a reasong, and operation, the words, secrete to helpe them, artisted. who although they be skilfull in the Greeke tongue, yet are not fo well ac greeke, stand quainted with the Tactickes, and may eafily militake, or not understand the sarthing. fignification, if they be not forewarned. But because I have before in my and trace. ngnincation, it they be not to cover in the state of the ample, or two, onely to explaine, and to gine light to both formes. \* Arri- Leville. an reporteth, that when Alexander was to passe the river Gramess, on the "Arrive. 14. further fide whereof the perfians had embartailed themselues in a " broad- a bri wherea fronted phalange to hinder his paffage, Parmenio one of his eldeft and best water. Commanders came vnto him, and gaue him this counsell; sir, said hee, Consider the Persians are ready to encounter you on the other side; my opinion is, You cannot gaine the passage without exceeding danger : both because your phalange cannot be led on front (that is, in a bread front) by reason of the many and sundry out whomay depths that are to be feene in the River, and of the beight and fleepeneffe of the banks, at also for that the enemies horse ordered in a? phalance, will be ready to charge vs, ? seepage whileft we disorderly and I winewise (which is the weakest kinde of fight ) endeanour alin were. to scamble up the bankes. Thus Arrian ving the words before recited, and noting the difference of both the formes. Les hath the like paffage, infruet - 120 647526. ing his Generall how in the night to surprize an Enemy in his lodging. His words are these in effect; When you march, saith he, to the intent that no tumult or confusion of noise be heard, nor the fretching out of your battaile into a great length breede error and inequality in marching; and bereupon cries and loud commands arise, so that the Enemy may easily perceive the accesse of your Ar- and injunion mie; It behoueth you to march not in 'front, that is, in a " large extension of "erialmunt. mic; It belows to you to march not in 'front, that is, in a 'targe extension of 20 semine, breadth, but wingwife, that is so fay, in a Tacepe forme of Embastaling; as if one evolutions. file froud follow in the reare of another, observing fill to maintaine the depth, or Ina Herse. thickneffe of the battaile. His meaning is: That in the night an Army ought 1471 1464

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cedenian confifting of 1684 pike-Phalangarchis the fourth part of a Pha.ange.

norto beled in a broad-fronted Phalange (because the places are wayes through which you are to march, are fornetimes large, fornetimes fireight, fometimes rough; fometimes plame, and fo you cannot preferue an euen from but must change the forme and diforder it) but in a Herse or deepe Phalange, which will fit all passages, and in the greatest mequality of way maintaine the forme of the battaile entire. And fo much of the fignification of the words marching in a Wing, and marching in a Phalange.

54 Every thing is called Parameker.] It is to be observed, that there is a difference betweene Paramekes and Heteromekes. I thought good to note it. because Alian in divers places mentioneth both. Parametes is the figure. according to Elian, wherein the length many times exceeds the depth; it may be Heteromekes, albeit it be but twice as long as deepe. I am not ignorant that a Enclyde nameth all foure fided figures, that have right angles, and vnequall fides, Heteromekes. But Slian, though hee apply Heteromekes fometimes to the front, fometimes to the flanke, set he gives no more then

a double proportion either of front to flanke, or flanke to front.

6. oribion. Albeit the word Orthium properly fignifie things rifing in Elian hash after. a height, yet in military discourse it is applied to the dimension of the depth of a battell, and not of the length. Herea Phalange is termed Orthia, and in Legin the place last by me cited, mention is made of med-nutre office, a deepe ine Dentagen. bassailing : and in Xenophon' Nixte of Oce, a Company ftretched out in depth; as in Pelven alfo, and Arrian, and Appian. & Polien hath belides, Tayuara office, and wifus ciplias, for an army, that is cast into a great depth, and into a narrow front. Therefore, as Paramekes fignifieth the length of the front; fo Orthion fignifies the depth of the flanke of any bartell ordered, as is aforefaid. Thus much of the names of the two battels: It remaines to shew the Vse of them, and how one may be transformed into the other.

The Plagiophalange, or broad fronted battell bringeth most hands to fight with conveniency, and therefore is accounted the better forme; and, as neere Phalange, and of as opportunity of ground would give leave, the ancient Generals principally affected, and fought to put this forme in vre : It hath the commodity to overfront the adverse battell, and is fafe it felfe from overfronting, vnleffe the Enemy bring a greater multitude then you have to over-match your Army. The Macedonian Phalange was for the most part of this forme, as all the fields Alexander fought euidently declare; So ordered he his troopes at Granicus, fo at Isos, fo at Gaugamelos, fo in other places, if the ground would ferue. This Caution notwithstanding was observed, that the depth held proportion with the length; otherwise the length profiteth not so much, as the thinnesse of the depth hurts, by giving meanes to the enemy to breake through, and put the adverse battell in a rout. I have noted it before out

> The Herse, or deepe Phalange, was thought the weakest kinde to fight in. Parmenio, one of the chiefest Commanders slexander had distrusted it (as I have (hewed a little before.) & Cyrus the elder, in the embattailing of the Egyptians, derided it; yet cannot the forme of the broad-fronted Phalange be foexactly taken vp, but that necessity will sometime force the other. In straight places it hath beene often vsed: Soh Darius in the battaile of Islos, by reason of the straightnesse of ground, was forced to this forme : So Bomilear the Carthaginian, was faine in a straight place to make a narrow front of his

b Ælia e 18. 28.

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The vie of the bread-fronted the Herie.

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P ATT LE. 74. 46.167.8.

F 325

phalange, and to extend it in depth. And decilius Glabrie the Roman Con- 4 Lin L46, 112.4; full, in the freights of Thermopyle against Antischus : and P. Scipus in Spaine : Links : 15 C. against the Illergets. Therefore in large grounds the first forme is to be choien, in narrow and rough places the other. The Herfe is also fit for Marches, because in a March you are assured to meet with variety of ground: sometimes with woods, fometimes with bushes, fometimes with streight wayes, with rivers, with hils, with pits, with bridges, with ditches, and fuch like impediments, so that the front of your broad-fronted phalance must needs be diffolued; whereas no difficulty of wayes can hinder the passage of a Herse, trates the front whereof may be narrowed (according to the ground you march in) as you lift. & Alexander being to lead his Army against the Thracians, that & Arthurs. had planted themselves in the mount Emus, was faine to narrow the front of his phalange, according to the way that led vp to the Mount: The same did he Azefilaus passing through the freights of Mantina; the History is by a xenoth bil. me recited before in my notes upon the 26 Chapter Panimenes likewife lea- gres 16.60; D. ding his Army through Phocis toward Thebes, and finding that the Enemy had Polyent. 5.383. taken and possessed a place called Philobaoton, that had two streights leading toward it, one of which the Enemy held with a gard; casting his troopes into a Herse contaction taken Ballinas, making the bulke of his Army flender, and fit to march, [haped him selfe to the right hand, as though he ment to hold on to that paffage. The Enemy therefore leaning the left hand streight, which they had in gard, ran with all sped to the right hand to stop his passage; but hee taking the opportunity, specded hastely to the left, and conveyed his Army thorough without danger. Many like examples of Herses accommodated to streight wayes, where a broadfronted Phalange cannot march, are to be found in Histories. The Orthiophalange or Herfe was also much vsed in an ascentagainst a hill which the enemy possessed: and in this sence are option word deepe Companies taken in the Greeke writers, especially when a whole Company is put into a file, and 3 or 4 or more files laid together to make an Orthiophalange, in which forme they vsed to mount vp against hils. Many examples be in their Histories of beating off Enemies from hils in this forme. "Cyrus th'elder vsed it 2- xemph cross. gainst the Chaldeans; b Xenophon against the Carducans; Cherisophus in pal- 3.71.D. fing the river Centrites, which river divideth the mountaines of the Cardu-Lagran. cans from Armenia: the Gracians against the Mosquecans, that inhabited cer- Xosoph despla taine Mountaines which the Gracians were to mount. Prolomey against the 2 X resolutions Indians, that embattelled themselves vpon a mountaine to resist the invasion 15.352.4. of Alexander. And a notable example of an Army afcending against a and a second Mountaine, is described by f Xenophon, in the fourth booke of the ascent of a xenophot exped-Cyrus; Herelateth that the Cholcans had taken vp a high Mountaine, and Laste. there imbattelled their Army to the intent to stop the passage of the Gredans in their returne out of Persia: The Grecians at the first ordered themselves into a Phalange, (a broad fronted battell) meaning in that forme to make their way. But afterwards the Chief-taines calling a Court, adusfed vpon their best course of fighting: Xenophons opinion was, that laying ande the forme of a Phalange, it would be best to order themselves in Companies & drawne cooling house out in file. For a Phalange, faid he, will some be broken, by reason of the inequa- mines. lity of the way, which in some parts of the Mountaine will be found case enough, in other hard to afcend. And the souldiers will quickly be discouraged to see the Phalange disordered, in which they murch: Besides, murching in a large front,

Reconstruct.

1 800 light-ar-· A long or hyanne to Apello vied by the Grecians when they iovacd wish the Enemy-Iul Pol. L1 .c.1.5.33 But of Thucydides faith there were two Pans,one se Mars before victory.L1.

the enemies, that exceede vs in number, will over-front vs, and vse their multitude to most aduantage : In a narrow front it will be no marnaile to fee our Phalance cut afunder with miliue weapons, and with men ordered in bactaile to charge vs: whereby the whole Phalange will be distreffed. Therefore, as I faid, I hold it best to put the Armie into Companies fretched out in depth giving to each Company fuch difrance one from another, that our wings may over reach the ottermost points of the enemies battaile: and let enery company make choice of their fittest way for ascent : As for the spaces between company and company, it shall not be easie for the enemy to conney himselfe into them, all the companies on all sides (in case he enter) wrapping him in between them : and if it chance that any company be distressed, the next company is to Succour and aide it - Now fay, that one company attaine to the top of the hill, you may be affured, that no enemy will keepe his ground. This Counfell was affented to by all; When therefore every manhad taken his place, and the a companies were laid out in their suft depth, the armed amounted to about 80 companies, in every of which were reckoned almost 100 men : The Targeteers and Archers were divided into three bodies, the first to march without the armed of the left wing, the second without the armed of the right, the third in the midft, every body confisting of well-nigh 600 men. After prayers made to the gods, the fouldiers advanced, finging the \* Paan; Then Cherisophus and Xenophon (leading the point of the Gracian battaile) and the Targatiers with them, who over reached the enemies wings, hasted on a pace, and the enemy perceiving it, extended their wings to meet them, and by that meanes were di-Bracted some to the right, some to the left hand, leaving an empty space in the middest of their Phalange : the Targatiers armed after the Arcadian manner, led by Aschines the Acharnan, seeing the enemies battaile dissevered, and imagining them to fire ranne forth with all speede, and were the first that gained the hill: they were seconded by the armed Arcadians, commanded by Cleanor the Orchomenian. When the Enevictory, the other my fam them come running on, they for soke their ground; and began to shift for themfelmes, one one way, another another : The Grecians having gained the Hill; encamped there. Hitherto Xenophon, out of whose practice the best addresse against an enemy, that possession a Hill, ouer which our Army is to march, may be learned: In a broad-fromed Phalance it is hard to proceede, both because of the inequality of the ground, which will eafily breake the phalange, and difioynt all the parts thereof, and also for that the enemies weapons throwne from the higher ground will not lightly miffe fo great a body, and great stones, and other masse, tumbled downe, will beare downe and make ruine of whatfoeuer commeth in the way, impossible to misse in such an extension of length, and thronging of the Army: to lead in one and a continued Herse is no lesse dangerous: A few men, and those onely in front, shall come to fight against a multitude of enemies, who will ouer-front and charge them on all sides. Xemphons Counsell then is to make divers bodies, and to order them fo seuered in front and flanke, that they may over-front the enemy, and not be parted afunder with the vneuennesse of the ascent, nor yet proue too faire a marke for the enemies weapons. The Bodies are declared to be Companies each of 100 men; these so divided one from another in distance filewise, that the vttermost bodies on both sides might be able to ouer-reach the points of the enemies wings, and to make choice of the best Ascent toward the height of the hill. Further, the forme of ordering the bodies is fet downe, They were stretched out in depth (option x hans: ) Orthios lochos is here taken for a Company ordered in one file; and it fignifies as much

as refriends, a Company ordered one man finely after another : which plicale is vied by Lenophone lewifiere : and in the fame fence Thursdides wheth the phrase same come of placing thips one in a direct line after another stiguirran, which his fee-lass de la of placing imps one in a circu time and amount comparation, which is the state liables interpreted the regression in the space had a place in a state of the stat bins likewise of Ships harti the same phrase, minimization, to be placed one af . Populared ter another; and in the fame place water. Yet this pallage out of Xemphan Co. where he mencioneth was work, hath a divers fignification from the common viage of while wire amongst other Grecians. It agreeth, in that, they led their Companies freethed out in file; it differeth, in that Zenophons files were placed in diffance one from another, and had all an equal front in the manner of a Plagio phalange, where in the other examples they were loyned, to . About the end to make an orthiophalange, and in feuerall bodies to follow one ano ved Battele, ther. I deny not that seller some are otherwise taken in the wars of the Romans

described by the Grecians.

Sof Scipio ordering his battell against Hamiball in the fight of Africa, is t Appear reported by Appian to have disposed his Army into Maniples, distributed in the into three kinde of bodies, the Mamples to stand of slaws next, one directly after another. How they food & Polybius thewes, describing the same battaile; srouts 48 He faith, that Scipio ordered the Hastati and their ensugnes first of all the rest, and in front, and gaue internals to their maniples; behinde them the Principes, nat against the internals of the Hastati, as the Roman manner was, but behinde them in a right line (because of the multitude of the Enemies Elephants: ) and lastly, the Triary. On the wing of the left flanke he ranged C. Lelius with the italian Horfe under him: on the right Massanilla, and all the Namidian Horse, which he commanded. The interuals of the first Enfignes (that is, of the Hastati) he filled with the bodies of light armed, communiting them first to undertake the fight; and in safe they were not able to with stand the affront of the the enemy or of the Elephanis, be willed them to retire; some, that could preuent the rest with speed, through the direct internals of the maniples to the reare of the army; other, that were in a manner surprised, to the flankes; mere the Enfignes. This ordering of Maniples one directly after another, to termed and described by Polybias, Appian calleth opsions which noewithflanding; if truly examined, cannot according to the Grecian practile come within the compasse of that name. For the Grecians, as I said, drew their Companies severally each into a file; and laying source, or five, or more of them together, made a body, the depth whereof much exceeded the length, or breadth, the front being of 4. 5. or 6. men in ranke, the depth of 100, whereas the Romans, as appeareth by Polybius, kept their ordinary manner of embattelling, fauing that they placed their principes not against the internals of the Hastati, as their custome was, but directly behinde the Maniples of the Hastati, to the end the Elephants of the Carthaginians might haue an empty and void lane, as it were, to passe through their whole Army: As for the Roman Maniples they confifted of two parts loyned together, which they called a Ordines, and enery Ordi contained 60 men, com- a conmanded by a Captaine; fo that the Maniple had in it 120 men, and two Captaines or Centurions. These 120 men being digested into files, containing 10 men a peece (for that was the length of file, and the depth of the Maniple) make 12 files, which stood one by another ranged in from, not stretched one after another ifi depth: But because the Maniples of the Hastati principes and the Triarij; flood directly one after another, therefore Appian called

amongst the Romans, or else because the Grecians in their writings reduced the order of the Roman embattelling vnto their owne vsage. So they called a Tribune of the Roman Army a Chiliarch, albeit a Chiliarch among it the Grecians and a Tribune amongst the Romans differ very much, as I have noted upon the ninth Chapter of Alian: the manner of embattailing of the Army of Acilius Glabrica Roman Confull in the streights of Thermopyle. commeth neerer vnto the Greekish forme: & Appian describeth it thus; Antiochus having fortified the streights of Thermopyle with a double wall, and drawne forth his army orderly for fight, to make good the place against Acilius; Acilius diuided his troopes into three parts, and giving one part to Cato, another to Flaccus, the one to make his passage on the one side of the Hils, the other on the other, himselfeled the ordinary way against Antiochus; and framing of his owner part offine xones (which manner of embattelling alone, faith Appian, ferueto for streight wayes) he pushed on and forced his Enemy to retire, gained his Campe. The opilos xoxas here mentioned, are no other then the borthis phalange, which Elian hath fet downe in this Chapter, namely, having one Maniple (or if the streight permitted not a Mample of 12 files to march entirely in front) one ordo confifting of fix files to advance, the rest following in the same kinde, as the fashion is of the right induction, remembred by Elian hereafter in his 36 Chapter. Now albeit that forme come neerer to the Gracian forme, yet it is not the fame. the one filling the way with the Maniple or Ordo, as it fell out, in the same figure, that it stands in the field, the other changing the order of the field, drawing the Company out into one file, and ioyning other Companies with it in front, as many as the way would receive: So that the Grecian had 100 in depth of the body, the Roman but 10. We are not to pretermit, that albeit Acilius vied this forme to dislodge Antiochus from the Hill, yet he trufled not to it alone, but dividing his Army into three parts, he caused two of them to march vp the bils on both fides, himselfe in the midst, to the end that one part might gaine the keight over Antiochus head, and so make him for fake his ground. Thus farre of the vie of these two kindes of Phalanges or battailes: it remaineth to shew, how one of them may be transformed into another.

The next preceding Chapter teacheth, that out of doublings of Rankes, the length of the battell arifeth, as the depth out of doubling of files. I have shewed the manner of both in my notes upon the 8 and 29 Chapter. And this manner is easiein a fingle Company, or in a small Army : In great Bodies it hath no great vie, let the Example be of a Phalangarchy, which is the fourth part of a fourefold Phalange, and containeth 156 files. Double the files once you shall 128 files, and 32 men in depth, and but 3 foot distance in ranke. The second doubling bringeth forth 64 files, and as many men in depth, but the distance berwixt ranke and ranke is but a foot and a halfe. Beyond this doubling you cannot proceede; for befide the confusion of places of officers, which are in number aboue 1250 in a Phalangarchy, the internals betwixt man and man, will not conveniently allow about two doublings . your open order betwixt man and man, wherein they stand at first, giveth but fix foot : The first doubling takes away three foot from every internall, the fecond leaveth but a foot and halfe. And confidering that when the battell is closed for fight, the neerest distance betwixt ranke and ranke ought to be no lesse then three foot,

in regard of handling of weapons (as I have thewed before our of Polybins.) The second doubling, albeit it yeeldeth roome from the bodies of Souldiers to in the fland in, yet it takes away the halfe of this diffance, but the third doubling all were treat lowing but 3 quarters of a foot for each man to fland in, giveth nor fo much ground as his body will possesse. So is it likewise of Ranks, which will not fuffer about two doublings fit for vie . Elians file is of 16 men, double your rankes once, your file will containe no more then eight men, and every man shall have three foot distance from other in ranke, double them twice the file hath but foure men, and enery mans distance in ranke is no more then a foot and halfe, which as it is allowable in close order, fo admitteth it no third dosbling, wherein the space betwixt man and man cannot exceed three quarters of a foot. As therefore the fecond doubling of ranks in a Phalangarchy albeit it extend the front of the battell, leaveth yet too finall a depth to the Placinphalanx or broad-ironted battaile, it containing no more then foure men in depth : fo the doubling of files twice fitteth not the Orthisphalange or Herfe. as having 64 in depth, and as many in length, which number neither holdeth proportion of the depth manifold to the length of the Orthiophalange or Herse, nor yet by reason of the length hath conveniency to apply it selfe to streight waies: a thing that containeth the principall vie of that manner of battaile; which was the cause that antiquity vsed another course.

If the march were to be made out of a Plagiophalange or broad-fronted battaile, they framed a Herfe, by putting forth out of the right or left wing; first one Tetrarchy, or other body, which might march whole according to the largeneffe of the way, and after it followed from the fame wing, the reft of the Army in the same kinde. If contrariwise a Plagiophalange or broad-fronted battaile were to be framed out of an Orthophalange or a Herse, they caused the body which had the vaunt, to stand firme, and the rest following to fleeue vp by it on the right or left hand, till they all came to an even front : " Xeroph Cyra-\*\* \*\* \*\*\* Tenophon (heweth the manner in a Company, whose words are these in Eng. 12.55.4. lish : Then he (Cyrus the elder) beheld another Captaine leading his Company from cisions the river fide to dinner, one fouldier following another in a fingle file, who when hee a cu suo apare thought fit commanded the second, and third, and fourth file to seeme up, and make an \* 20000 even front with the first; the file-leaders being new in front, hee commanded the balfe and theyo. files to double the front, fo that now the Decadarches or leaders of halfe files flood in front, wixes here fig-Againe, when it seemed good he commanded the quarter files to double the front : o the affect of the propedarches or leaders of the quarter of files led up, and the files marched on being discount of the files marched on the files marched o mided into foure parts. When they were come unto the Tent doore, hee commanded the Greeke History first file to single out againe, and to enter in, and the second to follow it single in the infiguisheth a reare, and fo the third and four: h, till all were within the Tent. To cleare these words men of Xenophon, It is to be vinderstood, that the Company or were here mentio- The File-leader ned, confilted of too men, and wasdiui ed into four files or Eve cach file containing twenty four men. The file had fine Officers the file leader the De-tweether and the production of the prod cadarch, two Pempedurchs, and the bringer up. At the head of the file stood the halfe searcethe file-leader, and behinde him directly five men; next after them flood the The two Persons first Promedurch and five men that followed him: in the middest of the file datches men a (that is, after the Pempedarch and his flue) was placed the Decadarch (who rece; one the led the hinder most halfe sile, and after hint flue men more) Lastly, the second after the single Pempedarch and five more after him, the last of which was the bringer vp. infront scho. Now when Xenophon faith, that the whole Company followed by one of file were next the wife, he meaneth that the foure files were cast into one file, and followed one rease.

another in a right line, and by that meanes had 100 in depth, and but one in front. To bring it therefore to convenient length from this depth, the Captaine commanded the first file leader to make Alte, or to stand, and the second file leader with his file to advance, and to fleeue vp on the left hand and to from with the first file leader, and so both files to stand euch fronted in open order. The like he commanded the third and fourth file to doe; fo that the foure files being laid one to another, and framing equally, the front or length of the body had foure men, the depth 24. Then, because he held this depth disproporcionable to the length, in so small a body; he againe enlarged the front by doubling, commanding the halfe files to double their front. The Decadarchs hereupon marched up to the from, and ranked with the file leaders, and the halfe files following them ranked with the front-halfe files man to man. Now was the front eight in length, the flanke or depth twelve. To enlarge againe the front, and to make the length exceede the depth, he commanded the quarter-files to double the front : hereupon the Pempedarchs advanced marching vp with their quarter files after them, till they fromed with the file leaders and Decadarchs, and each man of the quarter files ranked with the rest, so that the front came to be of 16 men in length, the flanke fix men in depth, and each man in ranke had a foot and halfe distance in file fix foot. And thus the Company from one file. as it were from an Orthophalange or Herse, was formed into a long body fomewhat resembling a Plagiophalange or broad-fronted battaile. To reduce it againe to an Orthophalange or Herse, the Captaine at the entry into the Tent (where the whole Company was lodged together) first directed the first file to march out, namely by the file leader with his five, then the first Pempedarch with his five, after him the Decadarch with his five, lastly, the fecond Pempedarch with his five; which drawing out of the Officers one after another in depth, with the parts of the file Commanded by them, immediately brought the file to the just depth of 24. This being done, the second file followed the first in like order, and the third the second, & last of al came the fourth: and this was the manner of changing one forme into another; and albeit the example be but of a Company, yet is the reason all one in a Phalange or battaile; for as a company is compacted of many files, so is a phalange of diuers companies; and as one file, in the example before, was led after another filewife, to is, or may one company or other body be led after another, making thereby an Orthophalange or Herse: and as one file advanced to front with another, to the intent to alter the forme of the orthophalange, fo must the bodies or companies sleeue vp one by another to make a plagiophalange or broadfronted battaile, yet want there not Examples in the Greeke History of turning the Orthophalange or Herse into a plagiophalange or broad fronted battaile, and by consequence the plagiophalange into an Orthiophalange. Cherifophus in the returne of the 10000 Grecians, that followed Cyrus the yonger into Persia, had the leading of the Vant-gard all the way. 2 He in his march in Armenia perceiuing the Chalyles, Taochians and Phasians had taken certaine mountaines, ouer which the Grecians were to passe, made alte some 30 furlongs before hee came to the Enemy, left encountring with the enemy, bee should fight with his army being led in a wing or Orthophalange : He commanded therefore the Captaines that followed him with their companies, every one after another to b fleene up their companies by his, to the intent to cast the army into a plagiophalange or broad fronted battaile. When there are Commanders were come up, hee called a counfell to aduife of the bef!

course in proceeding. Here is the order of the Grecians march expressed to be in ' a Herse or Orthophalange, which consisted of many companies one following another; and likewise the manner of transfiguring the Herse into a broad fronted phalange, viz. the Captaines one after another fleening vp their companies by Cherisophus his company on the left hand, and making an equall front with him. And yet this example containeth no more, then the fleeuing vp of the Companies vpon one flanke. Cherisophus first made a Stand with his companie, having the vant , the following Captaines fleeued vp their companies on his left hand, as the files did one after another in the other example. \* Alexander vied another kinde of fleeuing a little before he fought the bat- 4m. 12.35 tell of 1sfos; For, caufing the vant-gard first to stand, he commanded the rest c.p. of the foot to march vp to the front of the vant-gard on either flanke. The words lye thus in Arrian. Alexander having by midnight gained the Streights of Cilicia, fetting out a streight watch upon the rockes, rested, and refreshed his army till morning : by day-breake he descended from the streights in the ordinary way, and as long as the passage was narrow, he led in a "wing; afterwards the mountaines ope- was assessing a greater distance, he enlarged his wing into a phalange by little and little still Seeuing up the armed, one body after another to the fron; on the right hand toward the mountaines, on the left hand toward the Sea. The Horse all this while marched after the foot, but comming to ground of larger capacity, they were ordered on the wings. This manner of working to make a phalange out of Herse, was by drawing the following companies up on both flanks, on the right toward the mountaines, on the left toward the fea; so that it differeth from the other forme wherein the Companies were fleeued but vpon one hand. A third way of making a Plagiophalange of a Herse, I finde in Polybius, Machanidas the Lacedemonian . Payb Liz. Tyrant (faith he) being to fight with Philopamen the Achaan Generall, who had fa-632.8. bioned his army into a broad fronted phalange, made semblance at first, as though he meant in a Herlito charge the right wing of the Enemies battaile; but approaching toolig to get neerer at a convenient distance, he brake off the hinder part of the Herfe, and facing it ways to the right hand marched out, and led it out in length, and toyned it in equall front with his right wing, thereby equalling the left wing of the Acheans. In this manner of transforming the Herse into broad fronted phalange, the companies or bodies follow not one another, to fleeue vp to the front, but halfe the Plagiophalange is broken off at once (the reare halfe) and facing to the right or left hand, is led vp and ioyned in an euen front with the other halfe, not vnlike to our viagein exercise, when we command our middle men with their balle files to face to the right or left hand, and marching out to double the from of our battaile. Thus much may suffice for the names, vie and reduction of one of these two Phalanges to another: The third Phalange mentioned in this Chapter followeth.

7 The Phalange Love.] There are two kindes of Loxes, or vneuen fronted Phalanges: The front of the one is figured in a continued right line stretched out bias-wise thus: The other hath as i' were two fronts, formed out of two feuerall parts of the Phalange; the one advancing against the Enemy to begin the fight, the other staying behinde, and keeping the first ground, being ordered without the flanke of the first, that vpon occasion it may likewise aduance, and joyne, or else retire from the Enemy, and give backe; the figure shewes the shape of it; the last hath bin vsed by great Ge-

· meggur mis

8 4rr L 1.14.4.

nerals as a forme of advantage in fight. The first onely to win a passage, as I take it, ouer a river, or such like (where the broad fronted Phalinge could not passe) and to bring the Armie to a ground, where it might be ordered in better forme for fight. I will give one Example (for I read not many) of the first; & Alexander baning conneied his armie over Hellefont, and entred into Phrygia, came as farre as the river Granicus. Three Lieutenants of Daries with 20000. Horle, and well nigh as many foot, had embattelled themselves on the ories side of theriver to hinder his passage : The river was full of depths and stallowes somewhat dangerous to enter, and the bankes on the further fide high, rough, and feeple: belides, the Enemy was read; with herse cast into a long or broad fronted phalange. and with seconds of foot to beat him backe, that should offer to clymbe the bankes. A. lexander being resolved to passe over, first ordered his troopes in a broad-fronted phalange. The right wing he commanded himselfe, and gave the command of the left to Parmenio; then putting the Scout horse with the Paonians into the river, and after them a Phalangarchy of foot led by Amyntas the fonne of Arrabius, and then Ptolomy the some of Phillip, who commanded the troops of Socrates, which troops had the V aunt of all the hor fethat day, him felfe with the right wing entred the river (the Trampets founding, and the Army giving a front) extending fill his bassell bias wife avainst the Streame ( notwo riw land regressor) to the end the i er lans might not fell upon him. as he led in a wing, but himfelfe, as much as was possible, might come to torne with them, having the front of his phalange extended in length. The Persians cast b Darts from the high ground against the troopes of Amyntas and of Socrates, as they approached to the further banke, and some of them, where the ground was more euen, descended to the brinke of the riner; so there was thrusting and sholdering of Horsemen, some to ascend out of the river, some to hinder the ascent. The Persians let flyemany a dart, the Macedonians fought with fleares : The first Macedonians that came to hands with the Persians, were cut a peeces fighting valiantly, sauc only those that retired unto Alexander, who was now neere advanced with the right wing: He him leff first of all charged the Persians, where the principal strength of the whole body of their bo fe and the Generals of the field flood; about him was a firing fight, and in the meane time one troope after another paffed eafily oner the riner. This passage of the History is long, and therefore I forbeare to recite the rest, onely I adde that after a long fight the Persians were forced to flye, and the victory remained with Alexander. And this, that I have recited, may ferue to shew the vie of this kinde of Loxe-phalange, which was practifed by Alexasder to no other end, then to gaine the passage of the river; for in this forme hee would never have fought, nor is there any prefident for it out of his battels ranged voor euen ground, where he might have chosen the forme he liked belt; but he e he was to get ouer a river, the enemy held the bankes on the other fide with 20000. Horseordered in a broad phalange; the river was full of snallowes and depths, and thereby hardly paffable; the bankes on the other fide sleepe and broken, and hard to afcend: Parmenio diffwaled him to lead in a wing or herse, and himselfe had no great fancie to adventure in that forme. In a broad-fronted phalange he could not, which must needs have beene broken by the vnequall footing in the bottome of the river? What did hee then? hee thought best to choose a passable foord, and through it to put ouer the right wine of his Army flope-wife toward the further nanke, whither when they came, they should proceed against the streame; that the front being still extended, and the rest comming vp and ioyning, he might from toward and

charge the Bnemy phalange wife. And that this was his meaning is plaine by Polyen, who rehearing the fame Stratagem, faith, that Alexander led his . Popiel \$ 16. Army in that forme along the further banke to the end to ouer-front the B. nemies Horse-battaile: So that this kinde of Love or unenen-fronted Phalarge is no forme to fight in, as I conceine, but hath beene fornetimes taken up, as a meanes to attaine to a ground fit for a better forme; as Alexander changed it as foone as he came to the banks of the river on the other fide.

The other (as I faid) great Generals have vied, and by it have gained great victories. I will adde an example or two, whereby the we of it may more clearely appeare: Epaminondas the Theban in a field against the Lagdemonians, gained a famous victory by this forme : Diadorno Siculus writeth blidsbelt ;. thus, The Bæotians also being ready so fight, the battailes emboth sides were fashioned 486.6. in this order : Amongft the Lacedemonians the Chiefetaines of the race of Hercules had the wings (viz. Cleombrotus the King, and Archidamus who was the The Lacedone Some of Agestilaus, the other, King. ) On the Baotian side Epaminondas whing a penasas had by so-cultur and choice kinde of embattailing, obtained a renowned victory by his martial surface according skill: For, selecting the best men out of all his troopes, he opposed them against one of the Enemies mings, himselfe resoluting in his owne person to try the fortune of the day with them. Against the other wing he fet the weakest commanding theme to fight re. . wrongen. tyring, and to give ground by little and little, when the Enemy came on to charge; framing therefore an uneven fromed Phalange, be determined to hazard the fight "Mineral with that wing, which confisted of his chofen Soldiers . The Frumpets founded, and the Armies gave a shout, and the Lacedemonians figuring a halfe Moone thrust out both their wings of purpose to consiron the Bæotians, who with one of their wings reared, with the other ran forth to some with the Enemy : after isyming, the Victorie bung a good while doubtfull thorough the valeur of both parties, notwithstanding Epaminondas by the manhood of his people, and the thickneffe of his battaile having . The Brotisms the better, many of the Lacedemonians fell; for they were not able to endure the were so deepe weight of the refolution of these chosen men, yet fo long as Cleombronis lined, and nient 1. Zen had many to soyne Targets for his defence, and ready to dye before him, the fingy of bill graits socia victory was uncertaine: But after he bad caft himfelfe into all kinde of dangers, and get could not force the Enemy to retire, fighting heroically he was borne to ground with many wounds, and so ended his daies: There arose a flocking and concourse about his body, and multitudes of dead men were heaped one vion another. That wing, being now without a Commander, was hardly laid to by Epaminonidas, and first with plaine force somewhat disordered. The Lacedemonians on the other side, brauely bazarding for their King; recoursed his dead body, but could not attaine to the victory; as also the selected band, albeit prouvked by the vertue and exhortation of Epamimondas, it vied extraordinary valour, yet with much adoe did it force the battaile of the Lacedemonians, who first givine backe, somewhat disordered themselves; at last many falling, and no manbeing to command them, the whole armie tooke it felfe to fight. Epaminondas his soldiers followed the chace, slew many, made themselaes Masters of the field, and carried away a natable and famous victory. Their bonour was the more because they fought with the most valiant men of all the Grecians, and sucreame them being many more in number then themselves, contrary to all ment expetiation; but of all other Epaminondas was the man that merited most praise, who by his swine valour and martiall skill, won a battaile against those Generals of Greece, which to that day were held inuincible. This Testimony of the Lexe phalange is fornewhat long, but the worthinesse of the circumstances will, I hope, beare

me out to recite it, wherein the forme agreeable to Ælian is first to be noted. as advancing one wing against the Enemy, and holding off the other; albeit it goe a little further then Elies prescriberh in that the wine kept off, stood not still. waiting time to come forward, but when the Enemy came vp, loyned with him, guing ground of purpose to distract his phalange, and on that fide to busie him with a flow fight, lest happily he might give vpon the adverse flanke of Epaminonda and succour his owne partie that already was in fight. It sheweth besides, the advantage of Military skill; for the Lacedemonians. Masters of Armes at that day in Greece, having fashioned a halfe Moone, and imagining in that forme to inclose the small number of the Bastians, and to charge them on every fide, Epaminandas with his Loxe Phalange fo plyed the front of their wings, that the rest of the balfe Moone, being neuer able to Brike stroake, became vnprofitable: It shewes further what kinde of bartaile is fittest to encounter the halfe moone: Lastly, it hath the reason and vse of the Loxe phalange; that is, to charge one of the Enemies wings with the best and strongest part of our forces, and at the same instant to annoy him with the other wing, thereby to embarre him from giuing aide to his people that were in fight. & Alexander vied this forme at Gangamela, beginning the fight and victory with his right wing, and after with his victorious troopes succouring his lest wing, that was in danger to be routed by the Perflans. The like forme with the like successe was vsed by h Antigonus against Europeas; it is a battaile worth the rehearfing, but I have beene long in the Example of Epaminondas, and therefore referre the Reader to the quotation. Demetrius framed the like battaile against Prolomy and Selencus, albeit he were 1 Dlad Sic.l.19. frustrated of his hopes in the cuenchy the forefight of Ptolomy, who opposed his choifest troopes against that wing of Demetrius, which was first to undertake the charge. Hitherto of these three formes of Phalanges, see the figures.

> Parembole, Protaxis, Epitaxis, Prostaxis, Entaxis, and Hypotaxis.

in which albeit the two first be portraited without internals, yet you must

in the bread fronted Phalange vaderfrand the three internals vivall in the Ma.

cedenian fourefold Phalange: and in the herfe the fraces betwirt the reare of the

bodies that lead, and of the front of those that follow.

CHAP. XXXI.

Arembele, or infertion, is, when Souldiers being placed in a body, we take fome of the hindmost, and order them within the distances of the first, drawing them up in an equall from. (2) Protanis, or forefronting, is, when we place the light-armed before the front of the Armed, and make them forestan-

ders as thefile-leaders are: (3) When we order the light armed behind it is called Epitaxis, as it were an after-placing. (4) Prostaxis, or adiopning, is, when to both flankes of the battell, or to one flanke, some of the hindmost are added, the front of them which are added lying even with the front of the bartell. This addition is called Proflaxis. (5) Entaxis or infition, is, when it feemeth good to fet the light Armed within the fpaces of the Phalange, man to man. (6) Hyperaxis or double-minging, is, when a man bestoweth the light armed on the wings of the phalange, fo that the whole figure refembleth a threefold gate or doore.

This Chapter sheweth the inlarging of a Phalange or battell; by divers placings partly of the armed, partly of the light-armed. It is not hard to be viderflood; the rather because most of the alterations here mentioned are spoken of heretofore either in Elian; or in my notes: Sixe formes are here set downe, two by changing the place of some of the Armed, the other foure by changing the place of the light-armed, the armed are altered by b Parembole or Proftaxis, the light armed by Protaxis, Epitaxis, En-Doubling the taxis, and & Hypotaxis; what the fignification of each is shall be thewed in front by middle the notes following.

1. Parembole. This must alwayes be of armed, which are takers on the Placing after reare of the Armed, and inferted betwixt the files of the front : of this kinde : placing are is the doubling of the front by middle men with their halfe files whereof ween Ælian hath spoken in the 29 Chapter, see the figure there.

2. Protaxis or fore-fronting.] I have shewed before in the notes vpon the wings. feuenth Chapter, that the light-armed were diverfly placed in the front, in the reare, on the wings, within the battell; when they are placed before, it is called Protaxis, fee the figure here : h Prolomie and Selencus being to fight a- b Died Sieles. gainst Demetrius, who had many Elephants, placed the light armed before, to 1174, the intent to wound the Elephants and turne them away from their Phalange : fo Alexander, so Darius, at the battaile of Islos, placed darters and slingers before the fronts of their phalange : they ferue greatly to annoy the Enemy being so placed, especially being not charged with horse or pikes; if they be charged with either, they are to retire into the internals of their owne bartaile of pikes: See Onofander cited by me in my notes vpon the T Chapter of this Booke.

3. Epitaxis.] Ordering of the light-armed behinde was the viuall manner of the Macedonian Embattelling, from whence they drew them at pleafure to any place of feruice : fee the 7 Chapter.

4. Prostaxis it is, when armed are taken from behinde and laid to one or both flankes of the battell fronting even with the front thereof, which is a doubling of rankes, as is before thewed, done when the hinder halfe files divide themselves, march out and front with the fileleaders, or else march out entirely without division. 300 . Co, g. Gi.

Entaxis Incision is alwayes of the light armed into the spaces of the armed. It is all one with parentaxis, another Greeke word vied in the fame fence.

6. Hypotaxis.] Placing of the light armed on the wings was much vied in ancient time, as the manner is also at this day : but Elias would have them fo placed, that the eminency of them should make a hollow front in the battaile : Patritius taketh Hypotaxis to be the placing of the light armed in the reare, which seemeth to be a mistaking, both because the placing of them in the reare is in this Chapter called Epitaxis, and also because there being foure manners of ordering the light-armed, one in the from, another in the reare, the third within the body of the Phalange man to man, the fourth in the mings: if this ordering should be understood to be behinde the Phalange, there would be two kinds of placing of the light armed in the feare, and none of ordering them in the flankes: Besides, when Elian saith, they are placed with the allegian the pinayes, under the wings of the battell, he fufficiently expresseth himselse, the flankes of the battaile on both sides being the vttermost parts

The Vfe, and advantage of these exercises of Armes.

CHAP. XXXIV.



of the wines.

Hele precepts of turning about of faces, of wheeling, and double wheeling of the battaile, and of reducing it to the first pefiere, are of great vie in (1) fodaine approaches of the Enemy, whether he shew himselfe on the right or lest hand, or in the reare of our march. The like may be faid of Countermarches, of which the Macedonians are held to be the inuen-

ters of the Macedonian, the Lacedemonians of the Lacedemonian, from whom the Appellations are accordingly drawne. The Histories witnesse, that Phillip (who much enlarged the Macedonian Kingdome, and ouer-came the Grecians in a battaile at Cheronea, and made himselfe Generall of Grecia) and likewise his Sonne Alexander, who in thort time conquered all Asia, made small account of the Macedonian countermarch, vnleffe necessity forced it; and that by vie of the Lacedemonian, they both became victorious ouer their enemies. For the Macedoman countermarch, the Enemy falling vpon the reare, is cause of great diforder, in asmuch as the hindermost marching vp to the front, and making shew of running away, it more incourageth and emboldeneth the Enemy to fall on, for feare and pursuit of the Enemy is ordinarily incident to this Courtermarch : but the Lacedemonian countermarch is of contrary effect; for when the Enemy shewes himselfe in the reare, the file-leaders with their followers brauely advancing, and opposing themselves, it striketh no fmall feare and terror into their mindes.

## NOTES.

ALL the foure motions of a battaile; Facing, Countermarching, Doubling, and Wheeling, are before handled: In this Chapter Elian briefly

rehearleth the vie of them, especially in

1. Sodaine approaches of the Enemy.] If the Enemy come fodainely vpon vs, he must direct himselse either against our front, or our reare, or our flankes. If against our from, we neede no other motion then that whereby we may strengthen our front, which is viually done by doubling of rankes; we march for the most part in a herse in which forme there cannot come many hands to fight: and that is the reason why it is accounted the weakest forme to joyne with the Enemy. b Doubling of rankes helpeth that defect, and bringeth as many hands to fight, as the proportion of forces will allow: If against the reare, and time streight you not, and your battell be in open order, you have the vicof countermarch, which bringeth the best hands to \*Countermarch fight-for the File-leaders are effected the flower of the Army : your bartaile being in order or close order, you are to wheele it about to your right or left

· Against the

b Doubling of rankes.

e Against the

the Art of Embattailing Armies.

hand, and so to oppose the front against the Enemy. But in both these morions the caution of Elian is, that the Enemy furprize you not whilest you

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are in the action of countermarch or wheeling, left taking his advantage, her charge you being in diforder. Therefore if he come to neere, that you have no liberty to countermarch or wheele, your onely refuge is to face about to the . Facing. right or left hand, for fo he shall not be able to give vpon your backe: If the enemy appeare vpon any flanke, countermarch of the Front will not auaile, much lesse doubling against the flanke of ranks, or files, but you must either wheele your Front to the flanke, or if you have not time enough fo to doe. you are to face your battell to that hand: The vie of these motions hath been handled in their seuerall Chapters more at large.

Of the Signes of Direction which are to be guin to the Army, and of their fenerall kindes.

CHAP. XXXV.

E are to acquaint our Forces both Foot and Horse, perfectly with the(2) voice, and perfectly with (3) visible signes, that whatfocuer is fitting, may be executed and done, as occasion shall require. (4) Some things also are to be denounced by the Trumpet: for fo all directions will be fully accomplished. and fort to a defired effect. (5) The fignes therefore which are delinered by voice, are most cuident and cleere if they have no impediment. (6) But the most tertaine and least tumultuous fignes are such as are presented to the eye: if they be not obscured. The voice sometime cannot bee heard by reason of the clathing of Armour, or trampling or neying of Horles, or tumult of carriage, or noise and confused found of the multitude. The visible fignes also become many waies vncertaine, by thicknesse of ayre, by dust, by raine, or snow, or sunthine, or elfe through ground that is vieuen or ful of trees, or of turnings. And fometimes it will not be easie to find out signes for all vses, occasions effloones presenting new matter, to which a man is not accustomed: yet can it not so fall out, that either by voice, or by fignall, we should not give fure and certaine

He ordinary motions in a Phalinge are all represented by Elian. Now commeth hee to speake of Signes, which direct, and are meanes of effecting all these motions, and without which the Army is no Army burremains a body vngouernable, and may aptly be refembled to a Shippe that hath no rudder : For as a Ship in a tempest is driven by all windes, tossed by waves, throwne enery way vpon rockes, vpon fands, vpon dangerous shoares, that is not guided by the Master, who standeth and moueth at the helme, So an Army not directed by fignes, and forecast of the General is carried away through ignorance and violence of affection, sometimes of anger, sometimes of feare, formerimes of reuenge, and other vnbridled defires, and breaketh or elfe falferhinto confusion through disorder, working little against the enemy, nay rather giving him meanes of a certaine victory. The shippe is like the Army. the Generall like the Master, the words of Direction like the Rudder, guiding all and enery motion of the Army: For the Army being a body of many heads. whereof enery one hath a fenerall fense, hangeth together not by the naturall coherence and knitting of one member to another, but by artificiall ioyning . of man to man file to file body to body, whereby it is gathered together into one Masse, and figured into many members and ioynts, and ruled not by the reason and judgement of it selfe, but by the reason and vnderstanding of the Generall. So that no man is to demand why this or that is comman. ded but is to execute it alone for this Cause because it is commanded: The Generall then being to Command, and direct the actions of the whole Army. ought to finde out meanes to speake and discourse with them all at once, in such a language, as it were, that all may vnderstand at once. For the occurrence of warre being 'oftentimes fudden, and once flipt by, irrecouerable require fudden meanes of speedy direction, that nothing fall out so vnlooked for, but the Army may have notice how to prevent and avoid, or else to turne it to their most aduantage; the rather because in warre, safety and life come in question, in losse of which, no pardon of negligence can be admitted. And feeing there are two principall fences of advertisement, the eare the one, the other the eresthe eare to heare all manner of founds, the ere to differne all manner of colours and shapes, it hath been the witty inventions fo antient Generals, to informe their Armies by the one, and by the other; by the eve when there was no vie of the eare; by the eare when the eve could not be informed. The true observation and vie of these signes availe much in warre. Yegetius faith, that nothing profitet h more to victory, then to obey the admonition of figures. Former experience hath taught, that the neglect or error of fignes, hath brought in great inconveniences, and quite overthrowne the cnterprifes in hand. bPolybins remembreth it in Aratus the elder, a Generall of the Acheans. Cratus, faith hee, the Generall of the Acheans, feeking to get the Cynethian City by a plot, agreed with those of his party within the Citie, upon a certain time to come by night to the river that runneth by Cynethe there refreshing and staying his Army awhile, and that those within taking their time, should send about midday out of the gate fecretly one of their companions, to stand in a cloake by a hill appoin. sed. which was not farre from the Citie, to give advertisement to Aratus to march on; and that the rest about that time should lay hands upon the Polemarches, (that u sed to quard the gates) while they reposed themselves and slept : And that this done, the Acheans fould with all feed hasten to the gates, out of their simbush. Thefe things concluded, and the time approaching, Aratus came accordingly, and hiding himself e by the river awaited the figuall: About the fifth houre, one of the Citie an owner of the spe, that bore extraordinary fine wooll, & were viually feeding about the Citie came out of the City vate in a cloake, defirous to freake with the Shepheard about some prinate bufinesse of his owne, and standing upon the same hill, looked round about for the sheepheard. Aratus and his folke imagining this to be the expected figuall, ran in all haft soward the Citie but became nothing was ready within the gates were quickly flut, and not onely Aratus missed of his purpose, but the Citizens also that conspired with hum, fell into great miffortunes, being taken with the manner, and prefently brought firth and putte death. This may be an example of error and misprission of the signe: Of the neglett, and likewise of the like error and misprission, there is a notable

example in \*Cafars Comentaries in the fiege of Alexia, Where Cafar having \* Cafar debell. won the Enemies campe, lying upon a hill neere the Towne, founded a retreat to his Gall Ly. 156. army that was in fight : the Enfignes of the tenth legion made a ftand, but the Souldiers of the other legions not hearing the found of the trumpet, by reason of a valley, beyoud which they were; were yet held backe by the Tribunes and Legats, as Cafar had given direction. Nowithstanding, being puffed up with the hope of a feedy victory, and with the flight of the Enemy, and their happy battailes of former times, thinking nothing (6 hard that it might not be atchieued by their valour, they made no end of their chace, till they came neere to the Wall, and Gates of the Towne; and some of them entring at a gate, othersome clymbing up the wall, imagined they had gotten possession of the towne. In the meane time the Enemies forces, who were busse in sortifring without on the other side of the towne, being acquainted herewith by message, sent their horse before, and followed after themselves, and in great numbers charged the Romans : The fight was hard, the enemy trusting to the advantage of the place and to their number, the Romans to their valour, when on the sudden were seene on the open side of the Romans the Heduan Horse who served in Casars Armie, and were by him fent on the right hand to get up the hill another way : they by likenesse of their armour put Cafars souldiers in a great feare. And although it might easily be discerned, that their left shoulder was unarmed, which was the signe of such as were friends, yet the Romans conceived them to be enemies, and to wfe that device onely to ouer-reach and entrap them. Being oppressed on all hands, and 46 b Centurions staine, b Three were to they were beaten from their ground with the loffe of few leffe then 700 men. Cefars Centurious in a Souldiers here offended in both kindes in the neglect of their Generals Command, which he gaue by figne, and in mistaking the figne, which was vivall for the Heduans to be knowne by. Gelars judgement of these two faults appeareth in his speech, which he made to his Army presently upon the losse; in which he reprehended their rashnesse, in that they would needs take upon them to indee how farre they were to proceede, and neither be held in with the signe of retreat that was given, for yet be commanded by the Tribunes and Legates. He shewed of what force the disaduantage of ground was, and what his opinion was before this time at Auaricum, where surprising the Enemy without a Generall and Horse, he let an assured victory slip out of his hand, because he would not hazard, no not a small loffe in fight upon inequality of ground. As much as he admired their braue mindes and re-Solution, whom neither the fortifications of the Enemies Campe, nor the height of the Mountaine, nor the wall of the Towne could hold backe; so much hee reprehended their presumption and arrogancy, in that about the victory and issue of things, they preferred their owne conceits before the opinion of their Generall: For his part he required aswell modesty and continencie in a Souldier as valour and magnanimity.

So Cefar infinuating that shedience and heedfulneffe were two principall vertues in a Souldier; by the one to be ready at all commands, by the other to execute with discretion what was commanded: by want of heedfulneffe they perceived not the figne of retreat which was proposed vnto them, and miltooke the marke of the Heduans, whom they effective for their foce; by want of shedience to their Officers, they incurred the danger and losse which they suffained: diligent care therefore is to be had of figner, by which the minde of the Generall in all directions is declared, and as it were fer before the eyes of the whole Army.

The Inventors of the Signes of Warrewere many. The Enligne was invented by the Egyptians, as I have showed in my notes upon the 9 chap, of this

b Polyb, 1.9.

they vied the voice of the Cryer; I have before noted it vpon the 9 Chapt.

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Polemerches.

Lochagi. Pentecofters.

Lipfem ad Polyb.

Veget,43.45.

Booke, where also the reason of the invention is given: "The order of an Army, the giving of the figme, the watch, the watchword was invented by Palamedes, the trumpet by Tirrhenus the Sonne of Hercules:

To give signes to an Armie pertaineth, as I have shewed, to him that is the Governour thereof, that is, to the Generall. The manner how signes were by him giuen, appeareth in b Onesander, I will recite his words : Let all signes, " measuration quoth he, (he meaning by voyce) and by fignes be delinered to the Officers of the Armie; in afmuch as for a Generall to goe up and downe and proclaime the figne to

all, is the part of an unwife and unexperienced Man, and both time is loft in denouncing it; andit is often a cause of tumult, whilest every man asketh what the figne is. Besides, one addeth something to the Generals words, another diminisheth them Les case 5.186. through ignorance. Les hath almost the same wordes, at least the same

fence, and as I take it, hee borroweth them from Onofander. Onofander addeth, It behousth him to give the word to his highest Commanders, who are to

deliner it oner to the next to themselves, and they to their next inferiour Officers, till it come to the last; for so shall every one speedily, decently, and quietly know what is commanded. And this was the manner of the Grecians, as may appeare by Thucydides, who describing the vsage of the Lacedemonians in giuing the word and figures, of direction, hath thus, And presently the Lacedemonians ordered themselves in battaile, Agis the King commanding, as their law is; for when the King leadeth, all things are Under his command, and hee gineth

Emonocureus. Zemps. Cyrop. 13. direction to the Polemarches, they to the Lochagy, who deliner it to the Pentecosters. and they to the Enometarches, from whom the Souldiers of the Enomoties have it: This was then the manner of the Grecians. How the Romans did deliver out \* Polyb. 1.6.479 & their word you may finde in the fixt Booke of \* Polybine. But because it pertaineth not to Elian, who intreateth of the Gracian discipline alone, I remit the Reader to my marginall quotation. The figne was then delivered from the superior Officers to the inferior, and from them to the Souldier:

the kindes of fignes that were delinered are reckoned up in this Chapter, being in number two; for they were presented either to the eare or to the ere: to the eare, as all founds, whether mans voice or trumpets, or other instruments of warre, which were presented for direction or motion of the Army. To the eye, as all mute fignes (fo they are called which have no, found) which were fet up to the view of the Souldier for direction likewife: Both of thefe kinds were either ordinary or extraordinary; ordinary, which had daily vie in the Army, as the Trumper, Enlignes, and fuch like, as ferued for ordinary

direction. Extraordinary, which were brought in as occasion was offered of new command: befides, fome were delivered spenly, as the vocall, feminocall and mute fignes, which by proclamation, found of instruments, or representation were set forth to the whole army at once; some printly, as the word, and fuch like, which passed secretly from one to another, and were receiued prinately in the eare. This variety was invented, that in case one kinde failed, or would not ferue, another might, as I have noted before

out of Suidas vpon the ninth Chapter, and as Elian teacheth in this Chapter. The ends of fignes are two, one to order and direct our owne forces, the

other to distinguish them from the Enemy. Because I have before spoken of the diversity of wealt and mute signes, it

shall not be amisse here to shew the vse of them both by examples. Ani

Sigra Vecalia.

If the command required fecrecy, the Generall gaue it to his chiefe Commanders sceretly by word : Of this kinde was the signe delivered to discerne enemy from his owne fouldiers in a battaile to be fought. " Xenophon wri- a Zooph, desp. teth, that at fuch time as Cyrus the yonger and Arianerses were to ioyne hastes. battaile, Cyrus fitting on horse-backe a prettie distance from the Grecian troopes, heard a murmuring noise running along through their whole battaile, and asking Xenophon (who was then present with him) what noise is might be, and what it meant, Xenoplion told him, that the Word was now given the fecond time : Hee wondering who had reuealed the Word to the Enemy, defired to know what the new word was; Xenophon answered, it was Iupiter the Saujour and victory; which Cyrus hearing, I accept it, faith he, and let it be fo. The murmure here mentioned arose out of the delivering of the sizne of the battaile, which being deliuered to the inferiour Officers by Glearchus, the chiefe Commander of the Grecians, and the Officers communicating it to the Souldiers, and the Souldiers one to another, went thorough the whole body of the phalange with a foft and stil noyse of them, that whispered it in the eares of their companions. Xenophon hath here fet downe, that the word was Iupiter the fauiour and victory; In banother place he hath, Inpiter the Sauieur and Hercules the guide, for the branch de aged. figne. To know who was an enemy who a friend, the fouldiers meeting one 16,386. another demanded the figne; if they delivered the word given by the Generall, they held them for friends, if otherwise, for enemies: \* Polyen telleth of . Polyen Li, one Acues an Arcadian Generall, who commanded his Souldiers to kill him, whosocuer he were that should aske the word: so that he made the voice of the enemy serve for the word to his owne Souldiers. This signe was changed in every battaile, left, if still the same signes were vsed, the Enemy might happily come to the knowledge of them, and so be taken for friend, vnder colour whereof much treason might be wrought: not much valike the signe given in a battell to be fought, is the watch-word by night, which was viually deliuered to the first Officers of the Army, and by them derived to the rest, and so brought downe to the Souldiers, and was no lesse observed in a Citie, then in the Campe; in both which the same forme of watching was held, saue that in a Campe there were Sensinels per due, as we terme them at this day (the Grecians called them responsess) who flood and watched without the trench of the campe; whereas the Cities for the most part had Sentinels watching onely vpon the wals or market-place, or other pieces of strength giving to, and receiving the word from the rounders. And as the fignes of battaile varied vpon occasion, as the last example spesified, so the watch-words were often changed, for feare they might come to the notice of the enemy; for the Enemy having the Watch-word, might nourish spies in our Campe or Citie, and have certaine intelligence of all that passets there, as being taken for friends, because they carried the marke and tokens of friends; and they were changed not onely at the reliefe of the watch, which time is the viuall moment of varying the word, but oftentimes after the same night, for feare that a Sentinell might be fnarched vp without the Campe by an enemy, or elfe because of treason within, in reuealing the word to the enemy; oftentimes alfo they gaue a double word, one to the fentinell, another to the round; and ? Popt 19,556.

the Art of Embastailing Armies.

2. # neas c. 24-For the double figne and by-Egne, v Ane. c. 24, 25. 6 Ca. fanb.in notuad Ene 6.400 24, 25.

fornetimes added a domute figue, to the word, which kind they called manage as Brus, as it were aby fignes : and thefe are all the fecret fignes by mord, which ! finde in the Grecian practife. For the other words, as the exhortation of the Generall to the Army, and the words of training delivered by the Cryer to the Souldiers, (for enery Company had a Cryer, because his voice was stronger and lowder then the Captaines,) they neither are secret, and seeme rather to be in the nature of Commands, then Signes. The fingle word of battell and watch, I find to bee called by no other name then sweeta, if it were a double word wirequairens, if a mute figne were loyned to the word magestran. The voice then of a man was yied for a figne either when secrecie was re-

Samueca ia

quired, or else where the Crier might bee heard in discharging his duty by proclamation, because it was weake and could not extend to the hearing of ths whose Army, and many things required for publike and quicke direction, Inframents of found were brought in. Vegetine faith very well, Because a multitude cannot be governed by voice alone in the tumults of fight, and because mit my things are to bee commanded and done, according to need fits, the ancient ale of at Autions found out how the whole drang by fignes might with feed have notice of and follow that, which the Generall indeed profitable for it. To helpe therefore the weakenesse of the voice, Instruments of found were brought in, which were of three forts among it the Grecians, the Trumpet, the Flute, and the Harge. The Flute was vied by the Lacedemonians the Harpe by the Cretans, (even to the loyning of battaile) all other Greekers wied the Trumpet. & And vet in the battaile during the time of fight, and in retreats, the Lacedemontans also vied the trampet. I have noted it before vpon the 3 Chapter, where I have also touched in what occasions and actions the trumpet was the figne. Now will I

Died. Sic. 1.13.

Chapter

remove, you are in the morning by day light to fignific the remove by found of the Truenpet three times, and then remove, and the Leaders and the armed are to goe out for ft. then the wagons, if any bee, and then other things which are carried for the wife of the Army. Thus Lea, for the remove by day. By night, the Army of the Grecian: that fought with Ataxerxes (as Xenophon reporteth) removed after this fort. After the death of Cyrus, the Greeians that followed Cyrus, being in distreffe, and pinched with want of al things, not knowing what course to take, and having a meffage from Arieus (a chiefe Perfian Commander vinder-Cyruwhile he lived; to come and joyne with him, that they might returne together to lonia, from whence they first began to march, clearchus the Principall Commander of Grecians being determined to doe as Ariers counsel-

1.3.37".

give fome Presidents of the particulars there remembred. And first the Trumpet gaue the signe of removing the Campe: which ap-Lac :: 527. peareth by this precept of Lee; When you will remove your Campe without turnalt. you are to given commandement over night. And againe, the fame day to which yet led, and yet loth the enemy should know of his departure, gaue these dire-Ctions to the Army, This must be your course, faith hee, wee must got every money his lodging, and sup with fuch promition as he hath, and when the Horne giveth the Gene to reft, truffe up your baggage, at the second signed as it woon the carriage beafts is the shird energy man fellow his Leader. The Captaines and Corone's hearing this did as they were commanded. This practife of Clear bus differeth nor much from Las precupt; for hee whed three founds of the tramper, and to La dorn command: Clerchas verturther theweth what was bee done at ears; light, which the protermitteth, perhaps as a thing commonly knowne : Fe-

fides. Clearchus vied all theie fignes for another end, then for which they were first instituted. The Grecians at evening discharged their workemen from their worke by found of trumper, and that was called the figne of reft : then they divided the night into foure parts, which were called foure watches, because rheir Sentinels were foure times releeved in a night, and at every reliefe the Trumpet founded. Now the founds of the Trumpet by night, Clearchus converted into figues for marching according to Leses prescription, and remoued his Campe, the enemy not perceiving it. Hence it appeareth then that the Campe was removed by the found of the Tramper: And yet I finde that Alexander brought in an alteration about this figne of removing : For \*Curtius remembreth that Alexander at the first vied it, but perceiting afterwards, that this figne could hardly be differred by the whole Army, by reg. 2 Continut. fon of the noise and stirring of the multirude, thought it better to sticke downe a Pole, and vpon the top of it to hang a coloured cloth, to give his Army notice, that hee meant to remove, and ever after held himselfe to that siene.

The Trumpet likewise was the bigne of fight: And when all the Trumpets b xeme ( 3.108. of the Army founded, it was called " to mainter, (in Latine Classum;) and the e Died Sic. 673. whole Army hearing this figne, began to advence, and fung the Pan, and 4 Kenth Lt. gaue a shout, and presently ioynedwith the enemy. The Greeke histories eue- #exp. 165. Died, ry where give testimony hereof.

But wee are to note that this founding of trumpers all weether, was before the Army came to joyne with the enemy, and that the end of it was to firike a terror into the enemy, and to encourage and ftirre vp the mindes of their owne people to fight; for in the time of fight, they yied another manner according to this precept of Leo, I would not admife you to found with many Trum- e Leve. to. 5.09. pets, during the time of conflict, it being a thing both hurtfull, and bringing with it 197. tumuls and confusion : for thereby no Commander can bee heard. But if the place bee found plaine and even, the Trumpet of the middle battell will bee sufficient for all the other battels: if it be uneuen, or the winde, as it often happeneth, boifterous, or the noise of waters hinder the elecrneffe of the found, it will not bee income mient for a Trumpet to Beake in enery battell. so that three may be sounded in the whole Army. For the more that stilnesse is observed, the lesse shall the youger fort of Souldiers be diffurbed, or the bealts affreeheed, and more terrible shall she battell seeme to the enemy, and directions be better heard and put in execution.

The Trumpes were therefore the fignes of fight, first all founding together when the Army went to charge, and afterward one or three at the most during the time of fight.

And as the figure of fight was given by the Trumpet, fo was the figure of retreat.

This also is manifest by the stratagem of Pammenes. Polyen relateth that her & Polyen in Pamin deceived his enemies by ving a comerary course in sounding the Trumpet, then the manel 5.5.4. common manner was, commanding his Souldiers when hee funded the retreat, that bould goe to charge; when he founded a charge they bould retreat : in doing whereof, he greatly annoyed his enemies. The example of sagefilans cited by mee in my g pid squis notes upon the 9 Chapter sheweth, that the trumper was vied for retreats: 476. and the History of Callicrasidas reported by Diodor. Scic. in his 15 Booke; Saidas nameth this kinde of found given by the trampet, transfirm, as it were h still here a calling backe of a command to retire.

L# 67.5-31.

"The transer faulty was vied as a figne for the Army to fund, or to eve formal describe businesse required. Albeit I must confesse, there were other vineil fieres belides the trumper in this cafe: "Les faith, In exercife of Horfe, whole place to movie the Bedy, you wit to give figure wither with the voice alone, or michight Trampes, or effects the booting dampe of Taineroll, and fo to move them. said if an would have them to make alte, you are to divit either with he voice, faying Band we with the Trumpet or with the noife of a Targetbeaten upon with a fword. The like he speaketh of the exercise of foot in the same Chap and after in the . Ch. he faith you hall command the Souldiers to Rind by knowing estattly the fond of the Transpet of againstomone by the found of the transpet. So that although other figures mering tuen for marching & vetreat, yet the most comon figure was by the Trumpes, Now we are to vnderstand, that all figner given by found to the care fexcepeby the vovee) are called fiend feminecalia, because albeit their found be lowder and stronger for the most part then the voyce is, yer they are not articulated as is the found of the voice. Hitherto of fignes that were given to the eare by the found. Now are we to speake briefly of mute signes, or

those that were set up, as it were, a marke for the eye. Mute fignes were of two kindes: for either they were fimple, and vied by themselves, as an object of the eye abne, or else they were mixed, and invited to lignes of found, and so communicated both to the eye and to the eare. Of the second fort were those whereof I have spoken a little before, and they were called meanthum, namely when a mute firme is added to a world: as when to the Word in the night is joyned some speciall gesture of the body. as holding downe or nodding of the head, lifting up the hand, putting off the hat, beauing up the skirt of the garment, &c. concerning which fee 0wolunder and of meas. Of the first kinde were fignes prefented to the eje alone, which extended very largely, and ferued where neither voyce nor trumpet could be heard by reason of the remotenesse of the place these were called swine, figues properly, and openua likewife, because it was agreed by the parties, who gave and tooke them, that they should have such and such fignification. The words be different but the meaning and effect is all one; for as no figur can be, but there must be a giver and a taker of the signe, so in that respect the signes called spens by reason of the communication betwixt the giver and taker of the figne, may aprly also be tearmed overnie. And albeit I noted before that the figne of the battaile and the matchword was called by no other name but suches, yet it such taken often for a mute fiene alfo: Many occasions were of giving these ignes, and they were sometimes Thewen by day formetimes by might, and in the day time they were formetime proposed in the battaile, sometime in other places, where they might be perceived. Arrian historieth of Alexander the Great, that at bis being in the Country of the Tanlantians, his enemies Clytus and Glaucias, had with many borfe, darters, and flingers, and not a few armed men, taken the Mountaines and high places, by which he was to paffe in returning. The place was streight and wooddr, hut up an the one fide with a riner, on the other fide with an exceeding high mountaine, the fides whereof were very fleepe, fo that the Armie could not march with more then foure armed in front. Alexander mar halled his troopes to 120 in depth. and ordering 200 horse on each mine, he commanded silence, and heede to be taken to his directions: And first he willed the armed to advance their pikes, then upon a " siene ginen to let them fall, and charge, then to turne them close knit to the right hand, then the Art of Embattailing Armies.

to the left, and sometime he moved the battell quickly forward, and sometime he moued it to the one wing, sometime to the other. And so fashioning it into divers shapes in short time, and at last casting it into a wedge, as it were, he led it against the Enemy; who flood wondering at the speedinesse and good order of the divers motions; and now perceiving the Armie to be led against them, abode not the charge, but left the hill, which he held, and fled. Here are mentioned seven severall motions of the Phalange, which wee have in practice at this day: I Aluancing of Pikes, 2 charging of them, 3 first to the right hand, 4 then to the left hand, 5 moving of the battell forward, 6 mouing it to the right wing, and then 7 to the left. And all these motions were directed by a signe; what this signe was, may be doubted, because it is not expressed whether it was by voice, trumpet, or a mute figne. For my part I would not take it to have beene by voyce; for how could the voice be heard in fo great an Army as Alexander had (which according to Diodorus Siculus confifted of 30000 foot and 3000 horse) and was Biodorus sective ftretched out in depth, and had but foure armed in from: nor yet would I 566. imagine it to have beene given by trumpet; because, though perhaps the trumpet might be heard of all the Army, by reason of the Eccho rebounding from the Mountaine and river, yet could it not fitly and cleerely diffinguish the found that should direct these severall motions: I have before declared in what case the trumpet was employed. Let me with leave therefore thinke, that it was a mute signe presented to the eye; as for the purpose a Coate, or other garment fastned to the end of a long staffe, the colour whereof being eminent, and the staffe being listed alost might be perceived by the whole Army. The figne then advanced to the full height, might fignifie advancing of Pikes, which was the first motion. Being abased and held levell before the front, charging to the front, which was the second motion; held out leucil to the right flanke charging to the right hand, to the left flanke, charging to the left hand; which were the third and fourth motions of Alexander: moune forward in front, it might be a figne for the battell to follow, which was the fift. Mouing to the right hand, for the battell to march to the right, which was the fixt : to the left, for the battell to move to the left, which was the feuenth; which motion might more easily be performed, in case the ensignes of the particular Companies tooke their direction from the maine figne, and fo framed themselues to the same motions, and the Souldiers to the motions of their Enlignes: This I say is my coniecture, wherein notwithstanding I prejudice no mans opinion, but leave every man to his owne conceit and sence. 5 X enophon relateth a notable example of Iphicrates the Athenian, examplify great, who being chefen Admirall by the Citte, as soone as he began to take the Sea with 16:507.6. his Nauic, both at once sailed, and also prepared all things necessary for Sea-fight: for heleft at home the greater failes, as one that failed forth to fight, and feldome wfed the greater masts, were the winde neuer fo faire, but hasting forward with the oare, he both made the bodies of his men strong and healthy, and the Nauic gained a speedier way . and oftentimes where he meant to dine, there would he draw his whole Nauic from the shoare in a wing? and turning them about, and addressing their prowes to A single site. the land, give a figne for the ships to hasten with all celerity to the land, every one as it could. It was a great reward and victory for those that came first to land, to water, and take all things they needed, as also to dine, and a great punishment to the sluggards to want those commodities, and besides to put to sea again, when the signe was given: for the first did all things at ease, and as they list, the last were streightned with haste, and

must doe as they could. When, by chance he dined in the enemies Countrie, he set out Sentinels some upon land as behoosed, other upon ships rearing up the Masts, that from them they might take a view of all things : for these being placed in a higher station, might easily discerne and see further, then the other standing woon even ground: where focuer he supped and sleps, be suffered no fires to be made in the Campe by night, but held light before the Campe, that no man might have accesse to it without discouerg. Oftentimes in faire weather he no fooner supped, but put to fea againe, and in cafe there were a fresh gale, sailed forward, and the failers in the meane time gaue themselues to rest: when hast was needfull he relected the saylers by turnes, and in the day time upon fignes led fometimes in a wing , some times in a phalange. That these were mute signes from the Admirall ship (besides that, the word

a ano outrier. Xenoob bill gree-16.587.C.

& orgusion.

orper importeth fo much for the most part) no man I thinke acquainted with Sea service will make question, considering that both voice and b trumpet eafily give place to the whitling of windes and roaring of tempelts, and rab Les £14.640. ging of waves of the Sea. To fay nothing of the distance of one ship from another nor of the tumult and cry of Mariners, or found of oares (for in those times sea-fights were altogether in Gallies driven with oares) which make them vncapable of direction by any other kinde of signe. And for these mute signes to be given by fea, I meane, of what kinde they should be, and to what end, and in what manner delivered, I thinke good to cite the words of the Emperour Leo, which found thus: Let there be, faith he, in your Galley da figne standing in some eminent place, either an ensigne, or some bancrall, or some such · Lee c.19.5.42. like wherewith after you have signified what is to be done, your direction may straight be understood and executed, whether you would have your Navie to goe to charge, or retire from the Enemy, or to countermarch to encompasse the enemy, or to hasten to relieue some of your owne party distressed, or stacke or quicken their advancing, or lay or auoid an ambush, or such like : that they seeing the signes from your ship, may receive direction what is to be done. And a little after he declareth the manner and vfage of these signes, saying; Let the signe be showne either standing upright, or enclining to the right or left hand, or lifted aloft, or let fall low, or be taken cleane away, or transported to another place, or changing by making the head of it appears in divers formes by adding other shapes of colours with it, as was weed by the Ancients. For their manner was in the day of bastaile to reare up a red coloured figne, which they

. Lee c.19 5.42.

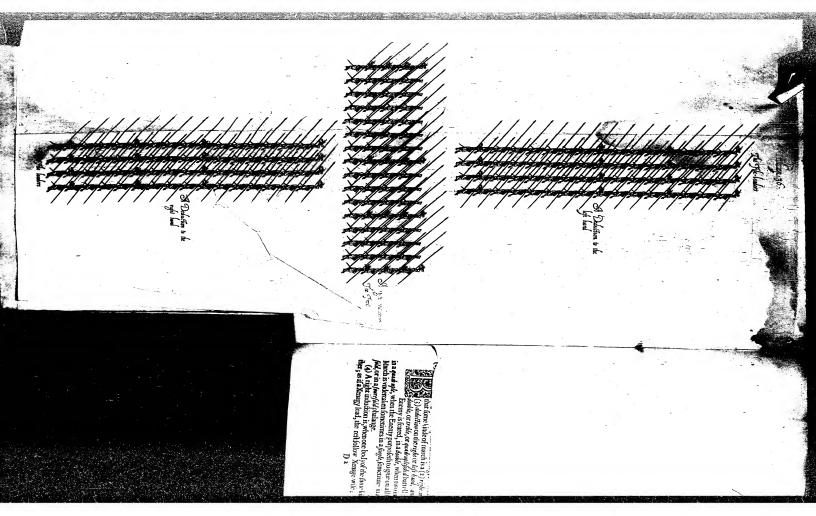
called couries, and it was nothing else but a peece of red cloath exalted upon a long staffe, and such like; but it may be more safely delivered by your owne hand. I thought good to cite thefe passages of Lee, the rather to give light to the place last beforerecited out of Zenophon. For out of this precept of Lee the practife of Iphicrates his motions may more peripicuously appeare.

! Died-Sic L13.

Now that these red coloured signes, and signes of other colours also were vied in \* Pople : 151 D fights on land, & Polybins sheweth in the battell betweene Anigonus the Macedonian King, and Cleomenes the King of Sparta. Amizonus Army confifted of divers nations, Macedonians, Agrians, Galatians, Acharans, Baotians, Epirotes, Acarnans, Illyrians, Cleomenes his enemy had taken and fortified all the streight passages which led into the territory of the Lacedemonians (for thither did Antigonus bend his invation) and so disposed his forces that Antigonus could not passe without fight : Hereupon Antigonus resolued to fight; and because his fight was to be ordered in and against divers places, and at diuers times, as his aduantage fell out, he gaue diuers signes to his different people, when to give on: The figne to the Illyrians was, then to charge vp

Died Sichan Veges Lass

Buanagy icau, me rentollow Xenage-wife; or if a Tetrarchy



s amo outser. Xenoph bift gree-le.587.C.

b Les 6.19-5-404

Les c.19.5.42

« Les c.19 5.48

Died Sie Lx 372.

& Polybla 15

people, when to giue on: The figne to the Illyrians was, then to charge vp b 76 our Brece

y- 2 Cafar L.z. de be? ||- civil 323.

D Died Sich 200

# 759. Veges, L3.5.5.

the hill, when they faw a white limencloath held up from the place about Olympus, to the Megalapolitans and horse, when they fam the King lift up a purple gar. ment. \* Cefar commanded his Souldiers not to fight without his direction, for cafar to de bes ing. he would give a figne with an enfigne, when he would have them begin. And al-coul 323. beit the colour of red was vied for the most part in Signals, yet was not the party that gaue the signe precisely tyed to any colour? it was enough if the figne might gine notice of the Generals intent to them, whom it concerned: the first Ptolowie game a figne to his Name to begin the fight by hoisting vp bold Sich 200 aguilt Target in his Admirall galley, other with holding vp or shaking sheet 719garment, or their hand, or with wearing some unusuall marke vpon a horse, vpon Armes, vpon vestures, or such like. This is to be noted for a generall rule, that when you finde in history a figne was given at a great distance, and it is not expressed what figne it was, you must vinderstand that it was a mute hene presented to the eye, because the sence of hearing is feeble, and not able to discerne farre off. Hitherto of mute signes given by day. In the night, when all was couered with darknesse, and the vse of sight taken away, the vsuall manner was to give a figne by flame of fire, which manner of fignall might be descried in the night, being the darknesse neuer so great : d Scipio Africanus a Appinin HYthe your ger, having enclosed Num inita round about with a trench and ram-passes yes. pier, comman ed that if the Enemy fell out upon any part of his fortification, ared peece of cloath fould be held out by day woon a long staffe, a flaming fire by night, that himselse or his chiefe officers might come to succour. The like thall you finde in Cafars Commentaries and Q. Curtime and in other Historiographers both Securety as. Greeke and Latine.

These were the signes vied in the battell, and in the Campe : without the Campe were fet Semin Is both horse and foot to fore warne and give advertisement to the Generall of the Enemies approach. To fthese oftentimes the Gene- America rall gaue a figne amongst themselves, and they by signes signified what was done abroad. For the manner of placing thefe Sentinels, fee Aneas. The fignes themselves were such as might be discerned by the eye, and of that kinde and forme whereof I have made mention already.

Of Marching, and of the divers kind of battels fit for a march. And first of the right induction, of the Calembolos, and of the Triphalange to be opposed against it.

#### CHAP. XXXVI.

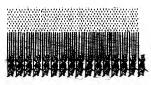
Eing now to speake of marching, I will first give to viderstand that fome kinde of march is a (2) right induction, other one a (3) deduction on the right or left hand, and that in a fingle, or double, or treble, or quadruplesided battell : In a single, when one Enemy is feared, in a double, when two in a sreble, when three

in a quade sple, when the Enemy purposeth to give on all sides. Therefore the March is vindertaken sometimes in a fingle, sometimes in a double, or in a threefold, or in a fourefold phalange.

(4) A right induction is, when one body of the same kinde followeth another; as if a Xenagy lead, the rest follow Xenage-wise; or if a Tetrarchy

The right Induction

The front



\$ PolyoL: 1:

diucrs times, as me people, when to give on: The figne to the Illyrians was, then to charge vp the length.

lead, the rest follow according to that forme. It is so called when the march firetcheth it felfe forth into a wing, having the depth many times exceeding

Against it is opposed the Calembolos or hollow-wedge, which is framed when the Antiftomus diphalange diffioyneth the leading wings, cloting the reare in forme of the letter V, as the figure after doth teach, in which the front is diffeuered, and the reare ioyned and knit together: for the right induction pointing at the midft of the Enemies battell, the Cælembolos quickly opening before, scrueth both to frustrate the charge of the front of the induction, and to classe in and circumvent the flanks thereof.

Furthermorea Triphalange is to be fet against the Cælembolos, one Phalange fighting against one wing of the Calembolos, the second against the other, and the middle or third phalange for bearing, and expecting a time fit to charge.

#### NOTES.

He Marching of an Army is a principall head of warre. Elian toucheth it no further, then to shew the order and shapes of battels fit for a March: and were it possible, that all grounds were alike open, and without impediments, as namely without trees, ditches, hedge-rowes raggedwaies, valleys, hils brooks, and fuch like, the best forme of your marching should be to proceede with your whole phalange in a fquare battell, which forme is ready for all attempts of the enemy, and is the beginning and fourfe of other formes, and with no great difficulty wil take & be changed into any shape you defire. Lee sheweth the inconveniency of the Herse or induction in marching thorow Champaine and large plaines, first in that the Enemy with a broad-fronted battaile may enfold and encompasse the front, and so easily rout it then, because if the Enemy charge the flanke it will quickly be broken. as being without depth : further, if he fall youn the reare, it is in the like danger of encompassing, as was the front : lastly neither can the front give succour and affiftance to the reare, in case it be overpressed by the Enemy. nor yet the reare to the front, they being fo farre distance one from another. And he conclude that the forme of a fquare or broad-fronted battaile, is fit for a march in all occasions, being easily to be ordered, and without danger. But feeing it is not possible, as Polibias faith, or else very hard to finde out \$2000 117,766.3 places of 20 furlongs, or more, wherein none of the impediments about recited shall be, the formes of marching must necessarily be accommodated to the ground and wayes through which your forces are to passe: what formes they be, the following Chapters will thew-

2. Some kinde of March is a right Induction.) The expectation of the enemies approach is oftentimes a cause of varying the kindes of march: if he alwayes appeared in front, there should need no other proceeding then with the file-leaders in front : because he seekes his advantage, and in the March fometimes attacheth the reare, fometimes one flanke, fometimes another, the Grecians to prouide for all attempts, so ordered their March, that wherefocuer they feared the enemies giving on, there they opposed the file-leaders, as the best men of the Armie, and most able to receive the affront : yet for the most part the March was undertaken in a right induction, the Art of Embattailing Armies.

that is, without inverting the ordinary kind of file-leading in front, which... also is our manner of marching at this day. But yet sometimes in a

3. Deduction on the right or left hand.] There is but one kind of right induction, viz. a march, that hath the file-leaders in the front. Of Deductions there are 2 kinds: one to the right, the other to the left hand. And because the file-leaders march on the right or left hand flanke, not in front; therefore the one is called a right hand deduction; the other a left hand deduction. So that not the body which continueth or beginneth the march, but the place of the fileleaders in the march, makes the difference betwirt Induction and Deduction. What the Vie of Deduction is we shall see in the next Chapter.

4. Aright Induction is. ] Ælian describeth the right Induction by the marching of feuerall bodies of one kind one after another as if ab Xenagy lead, all a Axenagy and a the reft of the forces are to bee separated into Xenagies, and singly one after ymasm, are all another to follow the first leading Xenagy: so of other bodies seller or greater. Notwithstanding in a right Induction, wee must take this caution with senten the size. all, that the file-leaders proceed in the front; for otherwise if they bee placed in the flanke, it is now no induction, but a deduction, how foeuer the fenerall bodies of a kind follow one another.

This is that manner of marching which is called, marching in a wing, of which I have spoken sufficiently in my notes upon the 20 Chapter. There are other kind of inductive marches fet forth in the Greeke History, which are not altogether of the forme which Aelian describeth: for where Aelian would haue Xenagies to follow one another with the file-leaders in from, his meaning is, that the whole 16 files of the Xenagie should bee laid together all the fileleaders being layed in an euen front. Now you have examples where whole Companies march in one file; fo that all the file-leaders haue not the front, but rest included in the inward parts of the file, and yet many of these files but reft included in the inward parts of the inc, and yet in the when Cyrus ioyned together make an induction. \*Temphon reporteth, that when Cyrus ioyned together make an induction. the elder was mustering and exercising his Army in the field, there came vate 12.56 him a messenger from Cyaxares the King of the Medes, being Cyrus his wikle, signifying, that an Ambassador was arrived from the Indies, in which regard, said bee, the King would have you to come to him with all speed, and I bring you from Cyaxares one of his richest garments. For he defireth in regard the Indians are to fee you, that your presence may bee adorned with as faire and sumptuous apparell as may bee. Cyrus receiving this message, commanded the first Taxiarch to stand in front, ha- b A Taxiarch ? uing his Company ordered behind him in one file, and himselfe holding the right cor- was a Captaine mer file of the battell, and willed him to deliver that Command to the second Taxiarth, of too mea.
and so the mount to passe to the rost. Then anish to shored, and but the Command in one of the days? and so the word to passe to the rest: They quickly obeyed, and put the Command in exe- rate. cution; and so it came to passe in short space, that the Front had in it 300, (for so many the Taxiarches were ) the depth of the battell 100. After they flood in this order, hee commanded them to follow, as he led, and straightway he led them running but because hee perceived that the way was too freight to march with fo many in Front, hee willed 4 This was a bobee perceived that the way was too irreight to march with jo many in errors, nec willed a wife flow on the first 4 Chiliarchy to follow in the same order inwhich it then was, and the scendin by 61:000 man; the Reare thereof, and so the rest and he sent two Sergeants to the turnings of the way, now ordered to to give direction to such as were not fully instructed in the businesse. When they were in Front, the to give direction to facts as were not fully instructed in the outsinesse. When they were depth ion come to Cyaxares gate, hee willed the first Taxiarch to order his Company 12 deepe depth ion. and the Dodecadarches to stand in Front all along the pallace, and hee willed to signi- and the Dodeca. and the Dodecadarches to stand in Front all along top pallace, and net which is the next Tax tarch; and so the rest one to another through the whole A. darchs commanded to the next Tax tarch; and so the rest one to another through the whole A. ded the binder my. They did as they were commanded: and he went in to Cyaxares. Here have you halfelles.

\$1,32,33,34

first a Company drawne into file, and so standing; then 299 Companies fashioned into files, and laid flanke-wife to the first, and so marching as long as the ground would permit: The ground afterward being capable of no more then 10 in front, the Chiliarchy of the right hand was drawne forth to leade the march, which confisted of 10 Companies, the Body being 10 in front, and 100 in depth: The rest of all the Chiliarchies followed the Reare one of another in the same order: comming to a place where Alte was to be made, the first Taxiarch drew out his Company by 12, placing the first file leader in front with the first 12 of the file, and sleeuing vp the Dodecadarch of the same file to Front with the file leader, and the hindermost 12 of them that followed him to ranke with the former halfe file; the like was done by the 3 other files, fo that each Taxis had 8 in Front, and 12 in depth, and there being 30000 men in that Army, the whole Army comprehended 300 Taxis. the halfe files of 12 a peece amount to the number of 2400: fo many men in number also making the Front of the Army. And for the leading of the first Chiliarchy in the straight way, and the rest following in the like forme. it was an induction, which notwithstanding differeth from Aelians induction. Aelians Chiliarchy in the induction requireth the file leaders in front, this differfed them in the whole body, Aelians Chiliarchy would have had but 16 in depth, this had 100. For marching in like manner with the Captains before and the fingle files of a Company cast into one file after them, I finde ano. ther example in \* Xenophon. The elder Cyrus being to inuade Affyria by night. directeth his Army thus; Let vs leave with the carriage beafts and waggons, Such as are fittest for that service, and let Gobrias be their Leader, because hee is both skilfull in the waies, and otherwise sufficient for any affaire of Command : And let vs fet forward with the best and most able hor fe and foot, carrying with us victuall for three daies : for the lighter, and with the leffe cumber wee shall appoint out felues, with 6 4 much the more pleasure the after passing daies shall we dine, suppe, and fleepe. Now let the march bee ordered in this manner : First, you Chryfanthas, lead the barmed foote with all their Captaines in Front, as long as the way is even and broad; and let enery Company bee or dered in depth fouldier after fouldier file-wife; for the cloffer wee put our felues together, the founer and fafer shall wee end our march. The cause why I would have the Armed goe before, is in regard they are the heaviest of the Army: and when the heaviest goe before, the light must needs follow at ease. But when the lightest leade, effecially in the night, it is no marualle if the Army bee feuered and distracted, she light eafily flipping away, and haftening in the Vaunt. Next unto the fe, let Artabazus lead the Targetiers and Archers of the Persians, and Andramias the Median, the Median footemen next, then let Embas follow with the Armenian foot, and Artuchas after him with the Hircanians, and next Thambradas with the Sacan foote, then Damatas with the Cadusian, and let all these march with the Captains in front, and on the right flanke of their Plesium the Targetiers (or Peltasts) the Archers on their left for fo fhall they better fecond one another. After thefe let the whole baggage march, the Commanders whereof must bee carefull to have all things ready before they fleepe, and early in the morning to bee at the appointed place with their furniture, and decently to march forward. After the baggage let Madatas the Persian lead the Persian Horse with their Captaines in front, and let the Captaines order their Companies in a file, as the foot Captaines did . Next after thefe Rambaces the Median in the Same fort the Horse which bee commandeth: Then you Tygraues your horse. Then the

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other Horse Captaines every one the Horse with which they serve mee. And as the Cadufians came last to my service, let them close up the reare of the Army : Thus Kem-

The passage is somewhat long, but I thought good to recite it, because it containeth the order of night marches viuall of old time. First, the armed foote march every Nation after other, as long as the ground would give leave, in a square battell framed of Company laid to Company, every Company drawne out into a file, the Targetiers on the one flanke, the Archers on the other: then the carriage: last of all the Horse. The reason is added why the flowest haue the Vaunt, namely, lest in the night, when all things (saith the same Xenophon) are to bee understood and done by direction to the eare, and not to the eye, the Horsemen or light armed (who are nimble & quick, the Horsemen by reason of the Horse that carry them; the light armed, because they are troubled with no weight of Armes) leading, they might happily with their speede out-goe, and leave the heavy armed bechinde, who beeing burdened with the heauinesseof their Armes, can march but

But my principall end was to shew, that the file-leaders in an induttion,, are not alwaies placed in Front; I will adde one example out of xen phon more to the same purpose; When the Grecians that followed Cyrus the gon ger into Persia, returned toward their Country, they came as fare as the river Phiscusting found there a bridge, and not farre off a great City called Opis, at which the base brother of Cyrus and Artaxerxes , leading from Sula and Echatana a mighby Army with bim, to give aid to the King, met the Grecians; and caufing his owne. Army to make alte, hee tooke visto of the Grecians as they paffedby. Clearchus led his Army 2 in Front, and in his march of contimes made alte. As long as the b soon weak Vaunt of the Army Stated, so long the Reare must likewise stay. So that the Grecians were of opinion they had a great Army; and the Perlian was abashed at the fight

of fuch a multitude.

Whether this march were Elians right Induction, a man would doubt, because it is not expressed by Xenophon particularly how the bodies of the Phalange did march : onely hee faith, that Clearchus led us we, in bines saith the Latine translation: I interpret it 2 in Front. For two in depth it could not be, because Xenophon speaketh of a stand made oftentimes by the Vaunt which caused the Reare to stay. And had the Army beene but a in depth, it had bean all Vaunt, the 10000 Grecians beeing ordered into two ranks and no more, each of them being 5000 men belides that the Perfian wondered at the multitude which parted by him in flanke; which flank, if it had confilled of no more then two his wonder would loon have ended. But Clearchus vied Art to make his number feeme greater and being bor 2 in Front, they must needs be 5000 in file, to which 5000 giving 6 foot aperce for their open order, the ground wil contain 30000 foor in depth, which amount to fix miles of ours. The vfage of the Lacedinovians was to march formetimes Fine for male in with 2 in Front, if the way were straight. So did Dereylilds in Asia the Jesse, 2009 feet when entring into a City his whole Army followed him peaceast, with 100 in Front, are smith, foot peace the straight of the straight 30 Archidamus the some of Agesilaus, aducheing against the Arcadiam by a cart mile. Way that led to Cromnum, ordered his Army 2 to from, at then his march fell out. when they approached one to another, Archidamus his army being in a wing by reason

& Suggestiquent.

of the streightnesse of the way, the Archadians in a broad-fronted phalange, with targets close faced together, the Lacedemonians could not endure the charge of the Arcadians, and forthwith both Archidamus was wounded through the thigh, and they flaine that fought before him. Hee faith that Archidamus marched two in front wing wife by reason of the streightnesse of the way. In that he saith wing wife, he sheweth the army was drawne out in depth, which is proper to an induction; and when he maketh the way the cause, he giveth a reason, why it so marched. But to returne to that I first propounded, the inductions hitherto specified in the former examples seeme to differ from Elians right. induction, as neither having all the file-leaders in front, nor yet fingle bodies of the fame kinde one to follow another, the companies being each drawne into one file, and then two, or three, or foure, or more of these files laid together, according to the largenesse of the way, and the rest of the army sol-

lowing in the manner afore expressed.

5. Against it is opposed the Calembolos.] The Calembolos is a wedge hollow in front, and to be opposed against the right induction, faith Elian. I have noted before that it hath beene the manner of all famous Generals to fit the embattailing of their armies to the forme which the enemy vieth at the time of ioyning: and therefore it much concerneth the a Commander of an army to be skilfull in all formes, which are of true vfe, and to know the advantage that one carrieth against another. The right induction is, and alwayes hath beene the ordinary forme to march in. To order your troopes in an advantagious forme against it, the Cælembolos was invented: It is called by the Greekes a hollow wedge, because it is not filled up in the middest, but includeth a void space bias-wise in front betwixt the points of both wings, and ioyneth it felfe together in the reare. So that to one that fhall view it behinde it seemes a plaine wedge, and yet in propriety of speech it cannot be called a Wedge; for a Wedge hath three sides and three points, and beareth the true forme of a triangle; and with the former point it chargeth the enemy, as hath beene showne in the horse-mans wedge. This hath but one point and two fides, neither doth it charge the enemy with the point, but receiving the front of his battaile into the empty space, striketh vpon both the flankes thereof with the wings, it hath opened, and so seeketh to distresseit; the Cælembolos having this advantage, that it fighteth with the best men, viz. the file-leaders ordered in the inside of the wings thereof, not against the file-leader of the right induction, but against the weaker fort, who are ordinarily placed in the flankes thereof. The Latine names are more fit and fignificant to expresse the forme. By some it is called a paire of tongues, by othersome a paire of sheeres, both appellations serving to fer forth the right forme of the Calembolos: for the one and the other open their foremost parts to a pretty distance, and the hinder parts, which are pinned and fastened together, end in a narrow point, as doth the Cælembolos. And they were so farre from tearming it a wedge, that they held it the best forme to receive and frustrate the charge of the true wedge, as may 4 Vuella o.c.18 be feene in 4 Vegetius.

▶ Forceps Veget. L 3. c. 18.19. 2:9.for@#.

> 6. Which is framed when.] The fathioning of the Calembolos springeth out the Diphalange Antistomus. What that Diphalange is, we shall see in the 40 chapter of this booke. Thus much I may before hand fignifie, that

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the file-leaders ought to be placed within the hollow flanks of the Calema bolos, as it were a lyning to the infides; and the Di phalange Antistomus being once framed (which is to have the file-leaders in the middest from the one end of the battaile to the other) there needeth no further labour, then to dispatch the front in the middeft (leaving the file-leaders on both fides) and to fasten and ionne together the reare, to the end that the front of the right induction may enter into the hollownesse, but yet be mashed, as it were in a net, and neither able to passe through the reare of the Cælembolos, being close thut, nor yet to give offence to those that fight in the front of the Cælembolos, having no man whom they may charge in the void space; nor yet daring to breake the forme of their battaile after joyning. For it is a good ob-Eruation of Vegetim, that in fight the manner of your embattailing is not to be vegets 416 changed, nor any number of So. Livers to be transported to other places then they have : Zouphagree. For hereof tumult and confusion will streight arise, and the enemy will easily take admantage of fuch as are not ready or fall out to be difordered. I have faid that the Latines and Grecians differ in the name of this battaile, howbeit they agree both about the forme, which may here appeare by Alian, who resembleth it to the letter V, neither can there a better refemblance be made; for as the letter V consisteth of two lines which are open in the top, close in the bottome, so doth this forme of battaile of two sides, which in front are void, open, and diffeuered, in the reare joyned and closed fast together. If you will therefore frame this battaile, you must first make a square, the file-leaders being all in front; then must you wheele the wings of your battaile into the middest, and so your file-leaders shall be in the middest; lastly, you are to open the front of your battaile, leaving halfe the file-leaders in the infide of one flanke, and halfe in the infide of the other, keeping the reare close knit together: and for the opening, it ought to be somewhat more then will receive into the void space the front of the right industion, which being once let in, the inward two flanks of the wedge where the file-leaders are, ought to face to both hands, and to charge the outward flanks of the right induction, and fo circumuent them.

7. Furthermore, a Triphalange.] A Triphalange in this place of Elian is. when a square body or phalange is from front to reare divided into three parts. The figure showes the manner. The Triphalangehath as much aduantage against the Cælembolos, as the Cælembolos had against the right induction. The Gælembolos compelled the right unduction to fight with the worst men, and avoided the affront of the file-leaders, which were the best. The Triphalange having the file-leaders in front, opposeth two severall fronts: against the two wings of the Cælembolos, where there are no fileleaders (for they are alwayes disposed for the inside) and both avoideth the advantage the Cælembolos fought, and maketh the Cælembolos fight with the world men, in as much as one of the Phalanges chargeth the front of one wing of the Cælembolos, the file-leaders whereof are in flanke within the hollownesse, the other chargeth the other. Now it nath this advantage befides, that it spareth referues for all occasions, by off-holding thethird Phalange. If the Cælembolos be beaten by the two opposing Phalanges, all is loft, and no hope left of winning the field, no other forces being to lecond it, where not with standing the Calembolos having gotten the better, may be curbed, and the victory arrested by this reserve, and by the remnant of the

other two Phalanges broken.

The right-corner Xenagy march out So is it of all other bodies, if they begin the march.

## Direction for the Calembolos.

Mheele the wings of your battaile into the so so shall the file-leader be in the middest; but we must note that the two midlemost leaders must be centors for the other keeping your Reare close.

## For the Triphalange.

The two wings face to the right and left hand, the middle remaining as it was.

March out to the diffance required:

That is, to be able to meet in a right line the two fronts of the wings of the Cælembolos.

Stand, & When they come to the place-los.

4 Face as you were.

5 Aduance and charge.

## Of Paragoge or deduction.

## CHAP. XXXVII.



Aragoge or deduction is when the Phalange proceedeth its (2) a wirg, not by (3) file, but by ranke, hauing the commenders or file-leaders either on the right-hand, which is called a right hand deduction, or on the left hand, which is a left-hand deduction. For the Phalange marcheth in a (4) damble,

treble, or quadruple front, according to the place or part it is suspected the enemy will give on. And both the paragogies beginning the fight in flanke, doe (5) make the length double to the depth. This forme of fight was deviced to teach a Souldier to receive heedfully the charge of the enemy, not onely in front but also in flanke.

### NOTES.

(1) Deduction is when the Phalange.] Induction is spoken of, Deduction followeth, which is the second kinde of march. For these are no other

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other kinds then Induction and Deduction: the one with the file-leaders in front, the other with the file-leaders in flanke. Neither doth the greatnesse of the body make any difference herein; be the body neur for great (as is the Phalange) or fo small (as one Company) yet must the file-leaders either lead, or else be in flanke of the march. The reare in necessity may well be made good by the bringers yp. Deduction is the mother of many formes of battailes vsuall in marches: from it come the Cælembolos, whereof we spake before; from it are the Antistomus, the Peristomus, the Homoiostomus, the Heterostomus, of which hereafter.

2. When the Phalange proceeds then a wing.] Suidas hath, that Paragoge or dediction is faid to be when the phalange marcheth with the file-leaders on the right or left band; if on the left, it is faid to be a left hand deduction; if on the right, a right-kind deduction. He maketh no mention of a wing as Alian doth; for it may is fall out, that the body may be fuch as hath the depth and breadth all one, as a Xenagy which hath fixteene in breadth, and fixteene in depth: forme bodies also, as the Taxies and Tetrarchies haue the depth lesse then the breadth, the first holding fixteen in depth & no more then eight in breadth, the last source in breadth and fixteene in depth, so that they march not in a wing. But because marches for the most part are undertaken in a wing, it is the cause why Alian saith that deductions proceed in a wing, the depth whereof manifoldly exceeded the length, and they proceed.

3. Not by file but by ranke.] That is, the file-leaders being wheeled to the sanke, after they have feeled themselves to march, proceed on their iourney as they stand in the stanke, onely facing that way the march is intended, and returne not to lead in the stront of the battaile, as they did at first. To lead by sile is, when the sile-leaders proceede, and have their files following at their backe. To lead by rankeis, when that which was the slanke as first, becommeth the front, and beginneth the march, and the rest sollow accordingly slanke-wise: yet this is to be noted, that albeit the front of the battaile be changed in the deduction, yet remaine the siles, siles as they were before, and are not altered into rankes. Æliar himselse giueth restimony hereto, assume that the Phalange proceedeth not by sile, but by ranke, whereas if the files held not their sirt name after wheeling to the right or left flank, the march sorward (the file-leaders being in the slanke) should be by file and not by ranke.

A. For the phalange marcheth in a double\_treble, or quadruple fide.] A double-fided battaile is that, which hath the file-leaders on both the flankes, the reft backe to backe within, when the enemy giueth on. For otherwife, when they march forward, all their faces are fet one way, that is toward the place whether the march is intended. A treble-fided battaile is, when three fides of the battaile are to be charged, whether the front and both the flankes, or both the flanks and the reare, or the reare, one of the flanks, and the front, and the file-leaders are ordered on all the three fides. A quadruple battaile is, when the file-leaders are placed in front in the reare and in both the flankes. An example of the quadruple battaile will finew the vie and framing of the reft: for as the reft oppose one, two, or three fides against the enemy, so the quadruple fortifieth and firengthneth all the four fides, by placing the file-leaders in them. Of ordering the file-leaders vpon one flanke, deduction may be be an example 3 ypon both flanks.

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gainst those Barbarians that inhabit about the river lifer, whom they also call Amphippi, because they change their Horse in fight. The Horse bars taile to encounter this forme hath a retragonall shape, being for the purpose divided into two broad fquares (they are called broad fquares, that have the front twice as much as the depth) and those squares are opposed severally against the flanks of the foor-battaile.

## NOTES.

(1) Here are many kinds of battailes, which being viefull for a march, are described partly in the former two chapters, partly in this and in the chapters following, whereof fome are for ease of the march (as the induttion) some for fight. Those which are for fight, are either offensine, or else defensive. Of the offensive kinde is the Cælembolos before mentioned, of the defensive the Triphalange to be opposed against the Cælembolos, and both the deductions, which are represented in the two last Chapters: and in this chapter is described another of the defensive formes, that is to say the Phalange Antistomus; in which although the march be not continued (for it is alwayes taken up in a stand, to resist a charge of the enemy) yet it is a remedy defensive against the sudden attempts of the enemy which is about to

charge your reare.

2. The Phalange Amphistomus.] The title of this chapter is litigious, and there is a controuerfie amongst the learned, which of two names the chapter should beare. Gaza, Gefuer, and Arcierus, would have it inscribed Antitistomus; Robortellus, Amphistomus: I have in the translation followed the opinion of Robertellus; my reason was because of these words in Alian, di de rais de pais apostipouver rois modules, they in the beginnings (de rais de pais) charge the enemy: which word eyes, I have not read applied to the flankes, and therefore tooke it for front and reare, because the one namely the front is as it were the beginning of the battaile, the other, viz, the reare, is the end. In which fence if you take the word, the description must needs agree with the Amphistomus, which (the enemy charging both front and reare) with the file. leaders and their halfe files as they stand, receive those that charge the front, with the bringers-up, and the other halfe files facing about to the right or left hand, those which charge the reare. But fince, vpon better consideration, I thinke there is a fault in the next; and where it is written is mis epoin, it should be corrected and written (as I take it) wrais dapor. For that to dape, fignifie the flankes of the battaile. \* Iulius Pollux testifieth in these words; Ton plantifican to himpoles redoctes persones, 2 Com 2, apostens: the institutes, dapa, wienes, alogna a lul. Political. To satisfy is everyus : To sit une or our marks; To se Raber To you reserve. The forepart of those that 6.10. fight, is called the front, the rankes, and the face; the outward parts on each fide (ne instigation ares) the flanks, the wings, the right and the left; the middest the na. Arras, 104.5. well; the depth, the parget; or wall. The like doth Leo in many places: and as Leo 47.5.52.49. farre as I can read, 72 areas in the plurall number, is generally taken for the \$6.24.52.9.70. fairles a labeit wise in the fingular number I deny not to be vied for the crops 15th fairles, a labeit wise in the fingular number I deny not to be vied for the crops 15th fairles, as in "Xemphon, who describing a fight betwixt the Cor." who should expend the cyreians and Lacedemonians, hath thus; Mnashpons (the Lacedemonian Gene. vall) embattailing his army put the enemy that was neere the gates to flight, and fel- of a wedge appe lowed the chace. They being come neere the wals, turned againe and threw and cafe

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and reare, the Amphistomus, on all foure sides, the Plesium, of all which occasion will be given to speake hereafter. Now I may signifie that the Plefium is a fquare hollow battaile, the length whereof much exceedeth the depth, having the armed foot placed on all the foure fides, the light-armed throwne into the middeft. The Gracians that followed Cyrus the yonger into Persia against King Artaxerxes, after their Coronels were taken prisoners and put to death by the fubtilty and periury of Tiffaphernes, being but 10000. and to retreat thorow open and plaine grounds, in which they were like to be charged by an infinite number of horse and foot, by the aduice of Xenophon, cast themselves into this forme; his words are in effect these, Wee shall, it may be march in more safety, if we order our selves into a Plesium of armed foot, and give the carriage and difarmed multitude a place of fecurity within the hollownesse of the battaile." If therefore it be now resolved afore-hand, who shall command in the front of the Plesium, and take charge of Vaunt, who on the flanks, and who in the reare we shall not neede to take aduise at the approach of the enemy, but put in evecution that which is resolved before. And a little after : And mine opinion is, that Cherisophus is the fittest Commander for the Vaunt, because he is a Lacedemonian; and let two of the eldest Coronels sake care of the Flankes; the yongest, namely my selfe and Timalion will looke to the reare. This was Xenophons counfell, and in this forme they marched, and being charged afterward with both Persian Horse and foot, they defended themselves against all efforts of the Enemy. The quadruple battaile therefore was vsed, when the enemy was expected to giue on all fides; and he that can frame it, can easily cast his troopes into the other two formes; yet will not every receiving the enemy in flanke proue a Deduction; for in case of necessity and sudden approaches of the enemy, you shall be driven to Facing, wherein you onely turne the faces of fouldiers to the flanke without any deduction. See the figure of this battaile expressed in the picture.

5. Doe make the length double to the depth.] I suspect this place to be corrupted in the text of Elian, the rather because before in the description of a Dedua movamation. Ction, he faith that Deductions proceed in a wing, wherein the depth a manifoldly exceedeth the length of the battaile, as the last fore-going chapter doth thew. Besides the example, which is given in the text is not of double proportion, but of treble and more, ten comprehending three, three times and more.

Of the Phalange Antistonous.

#### CHAP. XXXVIII.

He Phalange Amphistomus (for it is so called, because it hath two fronts, and that part of the battaile that is fet and advanced against the enemy, is called a front:) seeing then in this forme the middle-most are ordered backe to backe, and those in the front and reare make head against

the enemy, the one being Commanders in front, the other in reare, therefore it is called Amphistomus. It is of great vse against an enemy strong in Horse and able to give a hor and dangerous charge, and principally practifed a-

## The Tatticks of Ælian, or

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1184.C. Suidas vieth SiEra epperier the right wing, now the wing Aretebeth in front, from the middle fection to the point of the batta.le Alian.6.7.

darts from the mountaines: other running out of the other gates in good numbers fell upon the reare of the Lacedemonians, who being ordered but 8 deep, and thinking the reare of the Phalange to be but weake, endeauoured to retire and full off. The enemy no fooner fam them give ground but prefently fel on more eagerly smagining they fled . neither did they turne their faces any more, and they who stood next unto them sought with all freed to fane themselves by flight. Mnasippus could give no aid to his destressed souldiers by reason hee was hardly laid to by the Corcircans, that came to hands with him; and his number by little and litle decreased at last the enemy in great numbers pressed them fore that stood about Mnasippus, who were now reduced to a very few. And the armed foot of the Citty feeing what was done abroad, iffued out, and afad axes rant ter they had flaine Mnasippus, they followed the chace all of them together. Thus Xenophon. And thus you may fee wier in the fingular number taken for the reare of the Phalange, howfouer The ares in the pluralt, fignifieth the flanks. The Antiftomus i halange therefore differing from the Amphiftomus in this only, because the last maintaines fight in front and reare, the first in both flanks. and Alian in this Chapter describing the battel which maintaines the fight in the flanks, it feemeth that the infeription ought to be of the Phalange Antistomus, and that the text ought to be in roise news and not is xais. It may after a fort appear by Elian himselfe in the next Chapter, where making a difference betwixt these two battailes, he saith plainly, that the Antistomus fighteth it asper. Read then in the text, Those in the flanks make head against the enemy in flead of these words: Trose in front and reare, and all the rest will agree to the Phalance Antifromus.

a. It is of great afe The vie of this battaile is principally against horse. as Elian giverh to vnderstand; because they are quicke and speedy, and can fuddenly turne, divide themselves, and charge where they lift. And the flanks of the battell being the weakest part (for your best men are placed in the front and reare) it is needfall to finde out fome meanes to defend them, which is to instruct your Souldiers how to receive the charge by turning their faces to the flankes. In front you are alwaies ready; because faces and weapons are bent that way. Effect the like in the flankes, and you shall be able to refift any charge of the enemy. For foot, the danger is not fo great. because your men shall be able to face every way, as readily as the enemy: give them only exercise, and acquint them with that manner of fight.

4 And principally practifed against the Barbarians. ] That it was much vied amonest the creeiums I find not in there history yet is there no doubt but the vie may be great in it as well as in the Amphiftomus. But I take the reason, why it was seldome put in practice, to be, because the flankes of pikes in the Grecian battell were for the most part, garded with horse and light-armed. The front and rearehaving no fuch defence, were commonly attached by the enemy, feeking all advantage to distresse them; and in case the horse and light-armed bee absent, the flankes are the fairest marke of the encmy; which can by no other meanes be fecured, but by facing that way where he giveth on; which may be evidently feene by the fight Cyrus the elder had against Crefus, which example you shall see fet out in my notes voon the 46. Chap. page 79.

5. Those are broad (quares] That which I heere translate a broad fquare, is in the Greeke Heteromekes; of which forme I have fooken in notes vpon the 30. Chapter.

Hordes

Solborfe. sboth eccein **Exh**t € of a belfe esthe 400 14.75 of this Manue A ME chi are

Mileo - a Luca 75 84

18 -110 c cap. 12.6.20

thetiat & App in Painte

Asdruball the Carthaginian fought to entrap Scipio, giving Mago his generall of the horse commandement to charge Scipio his army in front, whiles himselfe charge dit in thereare. But Scipio turning the reare of his battell against Afdruball, and oppoling the front of it against Magooneesthies them both, and flew 5000 Cartha. ginians, and tooke 1800 prisoners. To make the manner of fight in this forme more plaine, I thought fit to infert an hystory or two out of Polybius and Arrian, as examples to illustrate that meaning of Alian. In Polybius this is the history. The Gaules in great multitudes under the conduct of Conco-Popt. lib. 2.115. litanus and Ancroestus their Kings, transcending the Alpes, and passing thorough Lombardy, and falling upon a part of Hetracia, had gathered rich (poiles out of that terretory and being now upon returne to their countrey, they were pursued by one of the Roman Confuls L. Amelius and his army, not with intent to fight with them (for hee held it not lafe ) but to observe fit times and places to distresse them, or else to keepe them from further spoile. At the same time C. Attilius the other Gonfull bauing imbarked his legions in Sardimi, and Cesting faile for Italy arrived at Pifa, and holding his way toward Rome marched directly in the way in which the enemy was comming. The Celts being now about Telamon, a promontory of Hetrucia, their foragers fellinto the hands of the Vanteurrers of Attilius, and were taken prifeners : They informed the Conful of all that bapned, and signified the presence of both armies; telling that the Gaules were at bana, and that L. Amilius followed them close in their rearc. Attilius partly maruailing at the strangenesse of the newes, and party being full of good hope because the Gaules seemed to be surprised and bemmed in betwint two armies, commanded the Tribunes to order his legions in a broad-front, and fo to lead on leafurely, as long as the ground would give leave : himfelfe in good time discovering a hill which hung over the way, in which the Gaules were to passe, tooke with him the borfe, and fought with all freed to feife whon the top of it, and to begin the medly: concerting thereby to have thehonour and title of the whole service ascribed to him; the Gaules were at first ignorant of Attilius approaching, but coniectured onely that it might be Amylius had led bis horse about in the night to feile vponvleful places: they (ent therefore their horse and light-armed to beat the Romans from the hill : but some understanding by some captines that Attilius was there, they presently embattailed. ordering ther army b into two fronts, the one before the other behinde; for they knew that one army was following, and they expected as well by the newes they heard, as by that which they (aw fall out at that time, that the other would meet them woon their march: A mylius heard that the legions of Attilius were arrived at Pila, but could not imagine they were come so necre; but after that by the fight about the hill, he perceiued certainly they were at hand, he fent out his horse to second those that fought for the hill himselfe ordering his battels after the Roman wonted fashion led on against the eemmy. The Celts embattailed those that are called Gesates, and dwelt in the Alpes, a. gainst Amylius, who they imagined would charge the reare, and next to them the In Subrians, In the front they set the Tauriscans and Bo ans (inhabiting be ond the river Po) turning their faces a contary way to the former, and opposed to the accesse of Caius Attilius, the waines and waggens they placed without both wings, and lent their pray gained to a hill thereby appointing a sufficient gard to keepe it. So the Amphistomus phalanec, which the Celtes cast themselves into, was not onely fearefull to theeye but allo fith ordered for fight. The Insubrians and Boyans came forth to fight wearing bretches & a kind of loofe and light coats; but the Gefates out of a vaine glor, and raffine (Te cast them away, and stood naked, saving that they had their armes

alone in the front of the batell imagining they were by that meanes fitter for actions

MALES TANKED Exterior dem mode SESTLEST ENTRE.

the Art of Embattailing Armies.

by reson of the bushes of the place, which would eatch held of any garment, and be a hinderance to the vie of armes. The first fight was about the hill in the fight of all, by reason that the multitude of so many horse menout of both armies were mingled together in fight; wherein it happened Attilius to be flaine (while too venturously he offered bimfelfe to dinger) and his head to be presented to the Kings of the Celis, but get the Ronanhorse-men brauely fighting, because masters of the place, and of the enemy : After this the foot toining, the accident was rare and maruallous not onely to them which were prefeat, but also to all those who can by reading represent before their eyes the truth of that which was done. For first the fight being attached by 3 armies, it must need be that the very sight an I manner of the constict appeared strange and without c. sample; secondly, who would not doubt either now or then, whether the Celts manner of embattailing were more dangerous, the enemy charging them in two places at once; or the best and aptest for victory, as opposing against both the enemies at once, and with all securing themselves from encompassing and invasion of the reare: and which is of most importance, no hope being left of safety, if they should chance to be foyled. For that is the property and profit of the Amphiftom's battaile; it made the Romans more confident, to have the enemy enclosed on all sides; and yet the brauery and noyle and turnult of the Celts gave them cause of assonishment; For there was an in sumerable multitude of Trumpets and Shalmes, to which the whole army together adding the Paan, the cry was fo great, that not onely the trumpets and army, but the places roun labout with their rebounding ecchoes seemed of the neelues to sparke. Further nore, the fight and motion of the naked menthat stood in the front, being in flower of their age, and excelling in talneffe of ftature, was fearefull. Now all the Gules that had ih: from were adorned with bracelets and chaines of gold; which the Romans eyeing were partly astonied, partly being fille with rich hopes were incited much the rather to loyne bassell; but when the darters running out of the Roman army according to their custome, threw many and forcible darts at the Celtes, the Celtes of the reare found 2012 we of their coates and breeches; but those that fought naked in the front, this accident happening contrary to their expectation, were trouble I out of mafure and wonder fully perplexed for the Gaulish target being not of fufficiency to couer a mans body, the greater and nakeder their bodies were, the more were they whiest to wounds, and the leffe the weapons miffed the marke. At the last, being not able to face themselves from the light-arm: 4, who plied them a farreoff, nor from the multitude of dartes that fell amongst them, and being troubled and confused with their present state, some of the mout of a rage and brutishnesse ranne vainly upon the enemy, and willingly offered themselves to flaughter, other retiring leasurely to their friende; and shewing manifest tokens of feare disordered them behinde. Thus the Roman light-armed all sid the pride of the Gelates. But the multitude of the Insubrians , Boyans , and Tauriscans , after the Romans had received thier light-armed into their battell, and advanced the cohorts, (of armed) to ione hand to hand, maintained a flout fight, and albeit they received many woundes, yet fainted they not in mind; being onely inferior both generally and particularly in the kinde of armes they bore. For both their targets in defence, and their swords in offence, had a great difference; by reason the Gaulois (word is onely fit to frike withall. But when the Roman horse from the hill hasted downe in wing, and stoucky came to handy stroakes with them, the foor-men of the Celtes were cut in pieces in the places where they fought, and the horse tooke themselves to flight: There dyed therefore of the Celtes 30000, and 10000 were take prisoners, aming I whom was Concolitan one of the Kings, the other K. Aneroestus, flying to a certaine place with a few, killed

Amphistomus Phalange; wherein he both sheweth the form, and the vie of it.

namely, that it hath a front both waies to receive the enemics charge before

and in the reare. Arrian hath another example in the battaile between

lexander was now come within the reach of missine weapons, when he sent his Archers on horsebacke against the left wing of the Indians, to molest the enemy on that side,

both with multitude of arrows, and with incurfion of the horse : and himselfe also ba uing with him the troupes of Companies, spurring on against the same wing, wine

all celerity to fall upon them (who were yet out of order and in a wing) before they

could reduce themselves into a Phalange. In the meane time the Indians knitting together their whole power of horse made head against Alexander with all speed, giving

their horse a full carriere. Then Canus, as was commanded, showed himselfe at their

backes. The Indians feeing this, were forced to order their horfe in an Amphistomus.

exposing one part (the most and strongest) to Alexander, the other to Canus and his troopes; which thing troubled the array and mindes of the Indians. And Alexander. taking hold of the opportunity, charged those which were opposed to him in the instant, while the other were facing about to Canus. The Indians endured not the charge.

but fled to the Elephants, as to a castle that was friend. Hitherto Arrian. In these

ly appeare; which albeit they either of them fight against the enemy in two

places of the Phalange at once, and are like ore to another in that respect.

yet they differ in the places of the fight, the one receiu ing the charge in both

the flanks, other in front and reare. They are both defentive & statary, and if

moue with you either of them during the charge of the enemy, you presently

break the form, and lay the backe of the foldiers open to be annoied, especi-

ally if the enemy ouertop you in number: otherwise it will be no inconvenienceto divide the battell, and to fight apart with both; For that the Antifto-

mus may be divided, Alian teacheth in the next Chapter: for the Amphi-

lange is divided into two, and being in one body, it is called a Phalange, in two bodies a Diphilange. About the Diphilange Amphilomus there is va-

riance amongst the writers of this Art. Alian would have it to bee framed of a Phalange Amphistomus dissoyned, and in the middest divided into two

parts: so that the fore-front is made with one of the hinder front with the o-

ther Phalange. The Treatise of Military Appellations, annexed to the end of Suidas faith, that that is a Diphilange Amphistomus, which hath the file-lea-

ders on the outsides of both the flanks in a deduction, and the bringers vp

within. I take Elian to be in the right; for if the Amphistomus Phalange must have the front and reare opposed to the enemy, what reason is there

why the Amphistomus Diphalangy should not be of the same nature, consi-

3 And also being divided into a Diphalange.] A Diphilange is when a Pha-

flomus, hee faith the like in this Chapter in these words.

the Art of Embattailing Armies.

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dering that the Diphalangy Antistomus hath the leaders, in the slankes, as the Phalange Antiftomus hath: which appeareth not only in the next Chapter, but also in divers other places of this Booke: neither doe I reade any where, that the Antistomus hath to do with the front and reare, nor the Amphistomus with the flanks.

The words of direction in the Amphistomies.

The hinder

1 Halfe files, face about to the right or left hand.

2 Charge the Pikes both waies in front and reare.

To restore to the first Posture.

1 Aduance your Pikes.

The hindermost 2 Halfe files, face as you were.

Of the Diphalange Antistomus.

CHAP. XXXX.

Diphalange Antistomus, is that which hath the file-leaders piaced not in a deduction outwardly, but inwardly face to face one against another, and the reare-Commanders without, one halfe in right, the other halfe in a left deduction. This forme is vsed against Horse, which give on and charge

wedge-wife: for the wedge shooting forth in a point, and hauing the Commanders following in the flanks, and indeauouring to diffeuer and breake the Front of the foot, the Leaders of the foot fore-feeing their purpose, place themselves in the middest, with intenteither to repulse them. or elfe to give them a thorow paffage without loffe. For the wedge flieth vpon the foote in hope to charge the multitude in the middest; and the foote Commanders conceiuing well the fury of that forme, leaue a little space betwixt the 2 fronts, and stand like walles on both sides, and iountly facing toward the middest, give them a fruitlesse and empty passage. This forme of Horse battaile is called by the Tactiks a wedge, which was invented by Phihe King of Macedony, who placed his best men before, that by them the weaker fort might be held in & enabled to the charge. As we fee in a Speare or fword, the point whereof quickly piercing, makes way for, and letteth in the middle blunt yron.

NOTES.

A Diphalange Antistomus.] This Diphalange is thus defined by Suidas & Suidas, in A Diphalange Antistomus is that, which hash the file-leaders placed in the mid- Successive dest, and the bringers up ordered without on bosh flanks in deductions : which words differ a little in speech, in sence are all one with Elians. They both agree that the file-leaders should be placed within the middest of the battaile face to face in deductions, the bringers vp on the flanks without. In the text, and in fashioning of the battaile, there is no difficulty. The file-leaders must be

a trimib.5-112 lexander the Great and Porus a king of India; his words are to this effect;

two examples is lively fer forth the nature and fathion of the Amphitomus phalange. And albeit both the parties that vsed it were beaten, yet the cause rested not in the forme, but in the valour of them that fought against it, if the Romans in one example, of Alexander in the other; Alexander himselfe

vfing this very forme in the battel of Gaugamila, obtained the famous victoa Arian lib. 3. f o C b App.in punicis Pag.9. ry against Darius, which is described by Arrian in his third book, as did also Scipio against Afdrubal in Spaine: so then by that which hath beene said, the difference betweene the Antiftomus and Amphiftomus phalange may eafi-

himselfe and his friends that were about him. This example hath Polibyus of the Amphistomus Phalange; wherein he both sheweth the form, and the vie of it, namely, that it hath a front both waies to receive the enemics charge before and in the reare. \* Arrian hath another example in the battaile between ... a trialib. 5.112 lexander the Constand Barren Ling of Indiation woods are trathic affect -

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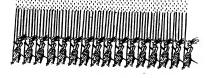
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ly a plac The Horsmans Dwedge Front dering that the Diphalangy Antistomus hath the leaders, in the slankes, as the Phalange Antistomus hath: which appeareth not only in the next Chapter, but also in diners other places of this Booke: neither doe I reade any where, that the Antistomus hath to do with the front and reare, nor the Am-

Cap. 40 . A Dyhalange Antistomus





## The Taliks of Alian, or

himselfe and his friends that were about him. This example hath Polibyus of the Amphiltonus Phalange; whereunhe both sheweth the form, and the vse of it, namely, that it hath a from both waies to receive the enemies charge before and in the reare. \* Arrian hath another example in the battaile between a lessaider the Great and Forus a king of Indiashis words are to this effect; a lessaider was now come within the reach of missine weapons, when he saw the for his Arribers on buylchecke up ains.

the Art of Embattailing Armies.

dering that the Diphelancy Antiftomus hath the leaders, in the flankes, as the Phalance Antiftomus hath: which appeareth not only in the next Chapter, but also in divers other places of this Booke: neither doe I reade any where, that the Antiftomus hath to do with the front and reare, nor the Amphilionnus with the flanks.

The words of direction in the Amphistonia.

The hinder

1 Halfe files, face about to the right or left hand.
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To restore to the first Posture.

The hindermost 2 Halfe files, face as you were.

Of the Diphalange Antistomen.

CHAP. XXXX.



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wedge-wife-for the wedge hooting forth in a point, and having the Commanders following in the stanks, and indestinanting to different and breake the Front of the foot of the Leaders of the foot fore-feeing their purpose, place themselius in the middest, with intenteither to repulse them on celle to give them a thorow passage without loss. For the wedge flieth vp-son the foote in hope to charge the multipude in the middest; and the foote toward the store, and stand like walles on both sides; and the foote twirxt the z fronts, and stand like walles on both sides; and commanders conceiving well the sure of those bartaile is called by the Tackiks awedge, which was invented by Philip King of Macedony, who placed his best membestore; that by them the weaker fort might be held in & enabled to the charge. As we see in a Spean, or sword, the point whereof quickly piercing, makes way for, and sented in

#### NOTES

A Diphalange Antiforms.] This Diphalange is thus defined by Suidan's salan, a Diphalange Antiforms is that, which hath the file-leaders placed in the mid-supers, and the bringers up ordered mithous on both flanks in deductions: which woods differ a little in speech, in sense are all ones with Allians. They both agree that the file-leaders should be placed within the middest of the barraite face to sace in deductions, the bringers up on the flanks without. In the term and in fashioning of the barraile, there is no difficulty. The file-leaders must be placed.

placed in the makiest within, the bringers up on the flanks without; and the backade being first closed, must be suddenly opened upon the charge of the Horseinkhe middelt, and the file leaders dividing themselves halfe on one fide: halfe on the other and facing to the middle frace with their whole files push at the Horse with their Pikes, as they passe thorow. It is called a Diphalange, because the phalange is parted in two; as the battaile opposed against the Calembolos is named a Triphalange, because it consisteth of three parts feuerall, and in the ninth Chapter the whole Macedonian pla-lange is named a Terraphalangarchy, because the body is divided into foure feuerall parts: and it is named a Diphalange Antistomus, because as the Phalange Antistomus receiveth the Horse without in the flanks, and so repulfeth them, so this altering that forme, onely by placing the file-leaders in depth within, and opening upon the fudden receive the Horse in the opened voide space, either to be overthrowne by their Pikes, or else to give them a passage without danger to themselves. This is one of the defensive bat-

tailes whereof I spake before. It is put in practice faith Elian

When the Horsecharge Wedge inself What a Wedge is, and of what force a mongst the Horse-battailes, I have noted upon the 18 Chapter. Against it Elian opposeth this forme of foot? But is there no other vie of it? Yes. For both the Calembolos and Peristomus are as it were daughters, and proceed our of the loyres of this forme, both having their file-le ders in deductions within the body, and both opening, the first the front, the other, the whole body, when they goe to charge; and yet the Diphalange Antiftomus is defenfine, the other two offenfine formes. I will accordingly as I have begun, illustrate the manner of the Dephalange Antiftomus with an example or two. \* Nepophon describing the fight that was betweene Artaxerkes the king of Perfiz and Cyrus the younger; telleth of Tiffaphernes (one of the foure Generals of Artaxerxes his army, that he fled not in the first ionning of the armies. but brake thorow the Grecian Peltasts (targetires) that flood embattailed by the river. Breaking thorough he flew no man : for the Grecians opening their battell, ftrooke and threw darts at his horsemen, as they passed thorough. Episthenes the Amphipolita wwho held the estimation of an under franding fouldier, was then commander of the Peltasts. Tiffaphernes ther fore withdrawing himfelfe as one that had the worst, returned no more to fight, bus going to the Grecian Campe, met the King there. So Ximphori. Out of which passage wee may perceive the vse of this manner of embastading. Toffaphernes choicof out the Grecians to charge the Peltafts the weakest kind of fouldiers to make resistance against the horse, by reason they were furnished with small surgers onely and darts. Then hee chargeth with his horse in a full Carrere to avoide the fury of the horse, they opened and gaut him a free paffage, but not without stroakes, and darts sent at his horse; and so made his charge more hurtfull to himselfe then vnto them : I cannot fay the file-leaders were here in the middest, as Elian requireth; because the charge was fudden and vnexpected. In premeditated defences, there is no way doubt, but it is the better way to place the file-leaders in the middest, confidering they are accounted the strength of the battell, and in all conveniences are first brought to fight, especially being armed men, and able to offend the horse with their Pikes; This opening then availed against the giving outsthorse ordered in a narrow front : for that was the manner of ordering the Perlian horse; and it may serue for any horse-battaile if it bee

wide enough to receive the horse within the front. Of ancient time sythed Chariots were in request, to which the tool whether light or armed could make small resistance; they had two long staues appointed with sharpe iron Assumed to the bearing of the chariot bearing out before, and sythes standing sat on approve to the afunder whatfocuer came in the way : the horse were same during the be wounded, as you may fee in the figure of the ast charger? The remarks then against them, was to open the basis in the figure of the ast charge it is a contract the charge of the c Yand reaction in Chapter. \* Alexander at Gangamela being to fight \* Died Falls. 17. with public, who had many of this kinde of chariots, and fearing the danger 1920 whey might being to his army, commanded his Phalange of foot, that when the armath, set he Mercian With a feet has the horfe being affrighted with the mail, might turne. and von the Contrary way. But if by fuch meanes they would had be serviced, then he willed which to open and make wide diffances, thorow which they might had which the Four fe without danger to his people. This was the prouisioning Alexander grinit the Chariots : The cuent followes. After the trumpets had given the figne of bataile, the armies charged one another casting forth great spies : And first the fithed Chariots flying out amaine, gave much amazement and terrour to the Macedonians. For Mazzus one of the Generals of Darius bieterff, worth millionake the falling on of the borfe more terrible, came thundering with his wounder of barge in the reare of the characts: But when the Phalange to plant sayet to the fet and take from beat his target a ccording to the Kings direttion; the loof sugari north & reafon whereof many of the chariots, the hor fer being affricand moned tuck; and with visresistable violence rushed upon their owne people : other falling upon the Macademians, who made large distances, those which entered were partly overwhelmed wish darst, partly passed queit thorough, demoching partick with the violence of their course, and working mightily with their sharpe system; broughs with them many and Sundry kinds of death: for the force of their fither had fuch power to destroy, take from many it cut off the armes, and targets and all, the necks of not a few were carned, heads falling to the ground the eyes yet feeing, the commemorate not altered the the it tore but he fides and put them to a fleedy death, Hitherto of theh May of Disdoral, But where he noteththe harms that came from the fitted des ices, I take it they might have beene aworded, if the difference had been wide nough, because I finde in Xemplon in the bassale between dritter second Cymentioned by me before, that many of the chariots of the Perform tunie thorough the Phalange of the Grecians without here to any ment Tout torne then to the vie of this forme, it hath heesetofore; and may abelieve bee put in practice against horse; and not early against horse ordered ara weage, but afto giving on in a fourte, if it be for they charge by stocates and the opening be wide enough, and fudden to recent the mone of the limite, For against a grosse of horse, they cannot have time to open wide enough; and if they open too timely, they leave liberty to the horse to charge either of the parts opened, as themselves shall please; and by dividing themselves, they diminish their owne strength.

conceine not, valeffe he should feeme to make Elian contrary to himfelfe. For the Amphiftomus Diphalange hath nothing to doe with the flanks, as appeareth by Elian in the 34 Chapter. This Diphalange fighterh altoget ther in flanke, as the description declareth.

The Phalanges of the Diphalange Peristomus. ] What a wing is, and what deduction I have shewed before. The meaning is, that the Phalanges Peristomus are both of them led obliquely (with the file-leaders in flanke) and in two deepe bodies; whereof the one hath in purpose to charge the fight

flanke, the other the left flanke of the adverse square battaile.

2 The ablique deduction on the regbt hand. Albeit both these Phalanges are called oblique, yet we may not imagine, that these Loxe-phalanges are the fame that is described in the 30 Chapter. For in that one of the Phalange forbeare the fight, the other advanceth to joyne with the enemy in this both fight at once, and have their advantage by charging the flanks of the enemy. That began the fight in front & had there the file-leaders, this in both flanks; this feeks to encompasse, that to avoid encompassing it selfe, as I have shew-

ed in my notes vpon the fame Chapter.

2 The oblique deduction on the right-hand, having the file-leaders without. 1 must imagine, till further information, that here is a fault in the text: my reason is this; all deductions are made to oppose the file-leaders against the enemy in fight. So is the right hand deduction vsed, when it is suspected the energy will charge the right-hand flanke : the left-hand Deduction, when it is listpected he will charge the left; to in wheelings we turne the front against the enemy to in countermarches. Now this former being invented to encompaffe the enemy and to fight upon his flankes. I would thinke the fileleaders ought to be placed on the inward flanks of the Diphalange; as it is in the Calembolos; for were the bringers up to be within, they should sufraine all the weight of the fight, the barraile being once divided, and the file-leaders flanding without should idlely lookeon, which is contrary to the military discipline of the Grecians, whose care was to vie the file-leaders in fight as much as was possible. Neither is at thereupon to be concluded. that this Diphalange and the Diphalange Antiformus are all one. For although both have their file-leaders within yet doe they differ both in forme and end. In forme, because this moueth forward with both Phalanges, the other flandeth flill: this is oblique, the other in a fireight line; that hath the front of the two phalanges even, this (as it falleth our in the motion) fometimes the one more forward; fometimes the other. In their ends, because this goeth to affault and to breake the enemies battaile, the other flantleth fall and fockes onely to fone it felfe inhe one being offenfare, the other defensive. So that, as I faid before, the Calembolos and this are both fremed out of the Diphalange Antiftomus both having their file leaders within the middest of the battaile; and yet differ in that the Calembolos is but one body hollowed within this divided into two bedies:

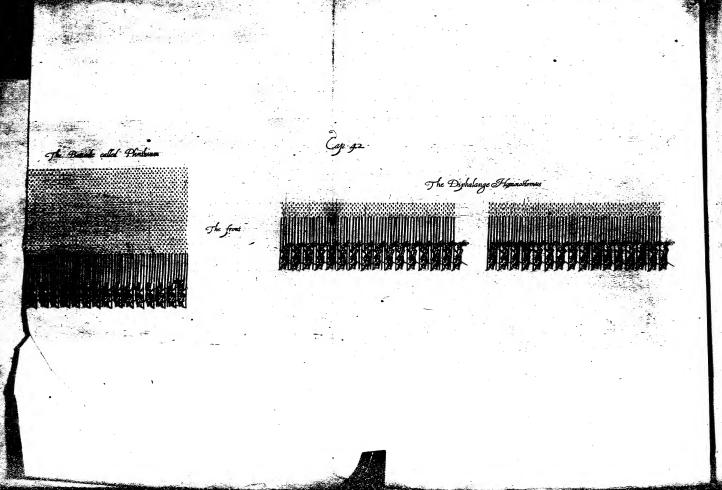
and they fearing to be enclosed.] The case of this square is about all one with the square against which the Carlembolos is opposed. For both are in danger to be enclosed. Now as the other fquarewas frine to call it fellow into a Triphalange, and to oppose two of the phalanges against the two wings of the Calembolos, referring the third for all socidents; to this fquare dinideth it felfe into two shalance (bun bath no third) fewing the one against the

## The Tatticks of Alian, or

Price Siction

right-hand battaile of the Peristomus, the other against the left; for by this opposition they inhibit the enemy from attaching their flanks. Of this. forme I finde not many prefidents in the Greeke history; I will receite one. ly one out of Arrian concerning Alexander, which if it hit not this forme in enery point, yet it hath fully the effect of that which is intended by Alian: Alexando being to deliver battaile to Perma King of part of India, lying on the other fide of the river Hydaspes, found his enemies army to be thus embattailed; He had placed his Elephants in the from 100 foot distant one from another; and he placed them there to give terror to Alexanders Horfe: for bee imagined that no enemy durst approach the spaces between the Elephants, neither with Horse for feare of the Elephants, and much lesse with foot, because the armed on his side were there to receive them, and the Elephants would tread and trample them under their feet. Next he ordered the foot, not in an equall from with the beasts, but in a foond from after them, so that the files came up almost to the spaces between the Elephants; besides, he added foor upon the wings about the Elephans. On both the wings of the foot be ordered his Horse, and before them his Chariots. This was the embattailine of Porus. Alexander as foone as he faw the Indians stand in battaile array, caused his Horseto make alte, that be might have his foot come up, who advanced still forward. And when the Phalange was come unto him running, he embattailed it not pre-Cently, nor forthwith ledit against the enemy, lest he should deliner it weary and out of breath into the hands of the Barbarians, that were field; but tireling and riding here and there in rounds with his Horfe, be rested his foot, and gave them time to refresh themsclues. And after he beheld the Indian manner of Embattailing, hee thought it not good to give vpon the mid test (of the front) where the Elephants stood, and the Phalange was close ordered against the spaces of the Elephants, searing the reasons shat led Porus to embattaile in that forme. But, as he was stronger in bor se, taking to bim the most of his Horse be freeded to the left wing of the enemy in perpose to give on there, and fint Conus with Demetrius his troope and his some troope against the right wing ; commanding him shat when the Barbarians seeing his troopes, should turne their strength of Horse against him, Coenus should inuade their backs. He gane the Phalange to Seleucus, Antigones and Tauron to lead; commanding them not to all on, before they fam the enemies foot and horfe put into a branfle by his Horfe. What the euent of the fight was, I have before shewed in my notes vpon the Phalange Amphistomus, where I have cited the latter end of this history. Now may be seene by this example, that Alexander began the fight not in the front, but in the flankes ; and the cause why he did it, was, because the front was exceeding strong by reason of the Elephants. And by this meanes defeating first the enemies Horse, then his foot, he left the Elephants naked, and without defence against the darts and other missive weapons of the Macedonians, and gained a worthy victory against a strong enemy. Now albeit this example come not home in all points to the Perillomus (for Alian limiteth it to foot against foot, this fight was betwixt Horse and Horse) yet is the reason of warrealike in both. For as the file-leaders of the Peristomus give on vpon the flanke of the adverse square, which is the weakest part of it; fo did the Horse of Alexander surmounting the Indians both in number and valor, gine on upon the flanks of Porm his army which was weakeft, and fo began and ended the victory.

It is salled Pristomus, as having the from bent.] That is, being divided into halfe, the one Phalange marching obliquely, commeth vp and chargeth one



flanke of the adverse frants against the end

Face to the One wing enemy

Of the 1



in figure and number, quall. In number, (5) In this foure-fid out archer or flinge ther, and both haud it is called a Dipha

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the Art of Embattailing Armies.

flanke of the aduerse battaile, the other chargeth the other, and so haith the fronts against the enemies both waies.

### Words of direction in the Peristomus.

- Wheele your front into the middest of the battaile.
- Face to the front.
- 3 One wing march out obliquely, and charge the right flanke of the enemy, the other the left flanke.

## Of the Diphalange homoiostomus, and of the Plinthium.

### CHAP XLII.

Diphalange (1) Homoioftomus is so named, because a (2) whole file (that is 16 men) moving by it selfe; another file followeth it: and it is therefore called Homoiostomus, because they that follow, follow in a like figure.

3 This kind is opposed against the Plinthium; (4) Plinting (4) Plint

thium is a forme of battaile, that hath the fides equall both in figure and number. In figure, because the distances are enery where equall. In number, because there as many men in length as in depth. (5) In this foure-fided battaile are none in the foure fides but armed, without archer or slinger to helpe: when therefore two Phalanges march together, and both have their leaders in a right-hand or lest-handed deduction, it is called a Diphalange Homoiositomus.

#### ZOTES.

I To moiostomus is a Diphalange, the battailes whereof haue like fronts. It is not this forme is incident, first that it be marching, then that it march in deductions; lastly, that the deductions be vpon one and the selfe, and not vpon contrary sides, wix. that the sile-leaders of the Phalanges, be all of them either vpon the right hand, or vpon the left hand of their Phalanges. And therefore Sudas definesh it to be a Diphalange, which but the leaders of the surface of either thalange ordered in the same side of the march. Where he said that the leaders or ordered on the same side in both Phalanges (which words are likewise in Elian in the end of the Chapter) weemust vnderstand nor the leaders of the March, but the sile-leaders, who are also called in phone, or leaving one says Elians said elsewhere, the march in a Deduction proceedeth in wing nor by sile but by ranke, so that the sile-leaders are in the slankes not in the front of the march; and yet a man may truely teatme it the front of the battaile, as long as it standers and faceth against the enemy.

2 Because a whole file.] I am out of doubt that this place is corrupted: any man that marketh the coherence will easily be of mine opinion. The inscription is of a Diphalange, which consister of two phalanges. The cause why this forme is called a Diphalange, Homoioformus, is in these words assigned to be, because a whole file, that is, 16 men moung, another file followsthis:

\* Mas c.7.

let one file follow another, what is that to two Phalanges? Every Phalange hath many files in it, as the \* feuenth Chapter will teach vs; nor will any man say that a file is a phalange, nor that the following of one file singly after the other will make a Diphalange: the truer cause is alleadged in the words following: It is therefore called Homoiostomus, because they that follow, follow in the like figure: which words albeit they be generall, yet being explained and particularifed in the end of the Chapter, they shew, that it is valled a Diphalange Homoiostomus when two phalanges follow one another, either in a right, or a left hand deduction. And by that part of the text the nature of the Homeiostomus is sufficiently expressed.

A fquare bar-

3 This is opposed against the Plinthium.] How this forme should be oppotails of men and fed against the Plinthium, I must confesse I yet understand not, unlesse it be that being in a march, the Plinthium charge one of them on that fide where the deduction, (that is in the front, for the flanke is now become the front) (the file-leader facing to the enemy that way) and the other if it be the leading phalange retiring & whealing, the following file advancing and whealing) give vpon the flank of the Plinthium, so that the Plinthium be charged both in front and in flanke, which is no small advantage in fight; for otherwife if the Plinthium meet the Phalanges fo following one another, and charge the front which leadeth (which indeed is not the front but the leading flanke, in asmuch as the march proceedeth not by file but by ranke, as Ælian hath) the deduction not onely loseth the benefit of bringing the file-leaders to fight, but is also subject to ouerwinging, and by that meanes in worse case then is the industrion which hath the file-leaders in front. There are other vies of the Homoistomus, then are here specified by Elian. For the Deduction directing the front against the enemy that appeareth, or is like to appeare on the flank of the deduction, the phalanges may fitly fecond one another, when either of them is charged, not valike the two battailons of La Mailes Second foot, which la Ngiie holdeth sufficient to repulse the charge of horse in open field or Champeign. And if both the deductions be charged at once, they are at no greater inconvenience, then if they stood ranged in ordinary manner, being either of them 16 deepe, and the fronts which are in the deduction ready to receive the affort of the enemy, and the rest of the limmes dispofed, as in the ordinary Phalange.

4 Plinthium is a form of battaile. This definition coprehendeth not all Plinthiums, for there is a kind of eue-fided Plinthium (it is called sorxinger, which hath the front &flanks of one length : and it is it which Elian here defineth. There is also a kind of Plinthiu that is deeper in flank then the front is long, which of ancient time was called \* \*\*\*\* in greeke, in english a rower, the a diri appendename of Plinthium is derived from wider, a brick, because as the bricke is square, so is this battaile, which is the reason I thinke, that it is often confounded with Plesium, this being also a square battaile, and the name deduced from the mould wherein brickes are fathioned, which mould is called in greeke "Maiston and The difference betwist them according to Elianis, that the Plinthium is a perfect square equal both in length

and depth, the Plesium a square longer in front then flanke.

5 In this figure are none but armed in the forefides.] What then becomes of the light-armed; they must be convaied into the middest; and the Plinthium ought to be hollow within as well to receive them, as those of the army that

are vnfit for fight. Lee hath this precept: If the enemy be horfe, you are to order the army into the square figure of a Plinthium, and cast into the (bollow) middest the carriage, beasts and carriage, and without them the armed, and furthest without the archers, that so you may dismarch in safety; yet this placing the archers without is contrary to Elian, & to many experiences mentioned inche Greeke history. \*Timotheus the Athenian purposing to passe by the City Olynthus; and fearing the O. linthian borfemen, ordered his army into a broad fronted Plinthium, caffing the a Poy 2795 as: baggage and horse into the middest, and causing the waggons to be driven thronging and fastned together, the armed foot being without on all side; so that the Olymbian borfe could not come to distresse them. Briidas the Lacedemonian being in Illyri- Porentasyin um for saken of the Macedonians his allies, expecting to be set upon by Arthybeus presa. and the Illyrians, reduced his armed into a square, and taking the light-armed into the middest, resolved to retire : the youngest bee appointed to fall out if the enemy charged on any side; Himfilfe with 300 chosen men took upon him to secure the reare, and to resist the ene my that should first come to charge. The Barbarians seeing him dismarch, followed with great shouts and cries, imagining heested, and hoping to take him and cut his throat: but when the light-armed fell out and met them, wherefoeuer they gave on and himfelfe with his selected bandreceived them, and contrary to their opinion stood firme, and repulsed the first charge, and ever as they forbore to charge held on his way : the mift part of the Barbarians left the Grecians, and appointing a party to follow their reare, the rest pursued the Macedonians that fled, an killed as many as they lighted upon. The like forme was vied in Elephants by the captaines of Eumenes and Peucefles against 1 furprife of Angenus. Diodorus Siculus reporteth the history thus. b Antigonus being admertifed, b Diod Siculus. that all Eumenes his forces were come unio him but onely his Elephants, and that 692. the Elephants were expected out of their garrion and vere farre of alone, and without ayde of horse and foot, sent against them 2000 sp are-min, bein Medes, 200 Tareptines, and all his light-armed foot; for hee boped that falling upon the Elephans. alone, hee might easily become master of them, and diprive his even of his greatest frengh. Eumenes cafting in his minde what might happen, dif siched way 1500 of his best horse, and 300 light armed foor. Antigonus peorle appearing first the commanders of the Elephants ordering the beafts into a Mathium, marshed forward, throwing the carriage into the middelt, bruing 300 horse and no more to make head in the reare, the enemy falling on with all their might, and holly charging, the horse being overlaide with number, wer put to slight. The riders of Elephinis at first made good resistance and stood tost, albeit they were wounded on all sides, and not able to hurt the enemy; and being now at the last cast ; the forces of Eumenes onexpectedly herving themselves, snatchedihem out of all danger and difresses Age & Poyce 995 age films vsed this forme against the Thebans; the Argitaspides against white comesses, gonus: the history is this; Antigonus having the better against the horse of lib-19. Eumenes, divided his horse into two parts, the one he tooke to himselfe and observed Eumenes, the other hee gave to Prihon Willing him to charge the the Argiraspides and filuer targateers old foldiers of Alexanders deprined of the aide of the horse, but they casting themselves into a Plinthium retired fafely to the river. Elian remembreth nothing concerning the vse of the Plinthium: But wee may learne by the examples rehearfed, that it was then practifed when the enemy was too strong and able to charge easily way; and it is one of the fore ided battailes that is mentioned in the 36 ×3 \* Chip and

vied principally against horse, but sometimes against horse and soor. Philip

Platin Antonio.

Died speulik. 16. the father of Alexander the Great, being to take armes against the illyrians who v-Surped many Cities of his kingdem, leuied 10000 foot, & 600 hor fe, and with them entred the enemies countrey Bardilis the Illirian King met him wi. b as many foot, and 500 horse: when the armies came together, and with shours joyned battaile, Philip hearing the right wing, and the best Macedonian souldiers, commanded the horse to fall on and charge the enemy in flanke : himselfe giving woon the front began a strong fight. The Illyrians ordering themselves into a Plinthium, valiantly abode the onset; and at the first the fight was equall, and so continued a good while by reason of the walour hewen on both fides; afterward the horse plying hard the reare and stanke, and Philip with his choice men valiantly laying at the front, the multitude of the Illyrians were forced to fly. Heere the Plinthium refifted both horse and foot; I will ad one example more of repulsing horse, the army being cast into a Plinthium. Marcus Antonius sceking to subdue Persia, and to revenge the losse which Crassus receined by the Parthians, (for in that warre Cræsus himselfe was staine, and his army defeated) and having laid siege to a great City called Phreata, and sinding not the secceffe he looked for, determined to dif-march and lead his army out of the Countrey; hauing first made truce with the King of Persia, proceeding on his tours cy, he was set up. on by the Parthians; but being repulsed, they retireathat day. Antonius kereby resolued what to doe : and strenthening his reare and flanks with many darters & sungers, he formed his army into a tlinihium, and willed his borfe to fall out and repulse the eenmy, but not to follow the chase too farre. The Parthians the mat foure daies began to be more coole, and neither charged nor were charged, and making winter their pretence, were glad to resire to their houses. By this president, wee may see, that the Parthians (who were mighty in horse) were sierce vpon the Romans as long as they held their ordinary kinde of march, but after they had ordered themselves into a Plinthium, so that the Parthians could not come vp to them without much indangering themselves, they thought it best to let them quietly passe and goe whither they would. And thus much of the Diphalange Homoiostomus and of the Plinthium.

## Words of direction in the Homoiostomus.

- 1 Wheele your battailes (if they stand in even front) to the right or left hand.
- 3 March one battaile after the other.

## To reftore to the first Posture.

- r Face about to the right or left hand.
- 3 Wheele the battailes to the right or left hand, according as the case requireth.
  - 3 Face as you were at first,

A Sharinge Hetero. comins is that which proceeded by account on, having the leaders of the former Phalange in a right-handon, naturn the reduction of the following Phalange in a left. hand Deduction, and of the following Phalange in a left. hand Deduction deduction, and of the following Phalange in a left. hand Deduction on, so that the battailes march counterchangeably, one having the leaders

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*A Diphalange Heteroftomus.] As the Homoiofton Alanges, & both proceeded by deduction, for F2	mus ás m.C.O. 1 a
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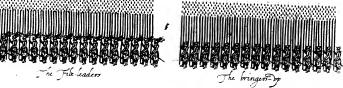
# the Art of Embattailing Armies.

For the Plinthium If there be 4 battailes standing togethler in an even Front, this I would hold the fittest way to make a Plinthium; 1 Let the first battaile stand firme, or march on; in going forward wheele to the right hand; in falling backe vie the Lacedemonian countermarch; 2 The 3 countermarch the front with a coun-

termarch then wheel to the left hand then march

pied syn white the father of Alexander the Great being to take armes against the Ulyrians who veres for person any Cities of his kingdem levied 10000 foot, & 600 ho seam with them entred the enemies countrey. Bardilis the Iliran King met him with as many soots and 500 horse: when the armies came together, and with showst sowned battaile. Philip heaving the right wing, and the best Macedonian souldiers, commanded the horse to fall on and charge the enemy in stame; the figure of the state of the

(ap. 43 The Dighalange Fleterostomus



3 Face as you were at first.

For

If there be 4 battailes ftanding togethler in an euen Front, this I would hold the firteft way to make a Plinthium.

I Let the first battaile stand firme, or march on; in going forward wheele to the right hand, in falling backe vie the Lacedemonian countermarch.

2 The 3 countermarch the front with a countermarch, then wheel to the left hand, then march forward, and place it selfe behind the right hand flanke of the first, that the Front of it may be in a right line with the said flanke.

3 The 4 in going forward, countermarch the reare with a Macedon countermarch, then wheele your battaile to the right hand, face abount; then wheele to the left hand; then march and apply it feife to the point of the first battaile, as the third did to the right; then face about, and stand thus:

4 The 2 countermarch to the right or left hand; then march on til it be beyond the left point of the 4 battaile: then face to the left hand; and marchyp to lay the right-hand-point eue with the right point of the 1 battaile, and face to the right hand, to make the reare of the Plinthium thus:

The feuerall bodies being brought into a Plintium, must front euery way as long as they make Alte. When they march in a Plinthium, they are all to face toward the head of their From march: that is, the right and left flanke battailes are to face the one to the left, the other to the right hand: The reare battaile is to face about to which hand it lift, and fo march on:

The battailes beside have every one their place of dignity: the first battaile having the front, the 2 battaile the reare, the 3 battaile the right slanke, the 4 the left slanke.

falceh:
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## Of the Diphalange Heterostomus. CHAP. XLIII.

on, for that the battailes march counterchangeably, one hauing the leaders of the former Phalange in a right-hand-deduction, and of the following Phalange in a left-hand Deduction, for that the battailes march counterchangeably, one hauing the leaders in one flanke, the other in the other:

A Diphalange Heterofformus.] As the Homoioftomus confifted of two Phalanges, & both proceeded by deduction, fo must this forme. They dif-

of the other on the left hand. For if the leading Phalange haue the file-leaderson the right-hand, the following Phalange shall have them on the left:

If the first haue them on the left, the other shall have them on the right. See the figure. They se of this form is, when the enemy sheweth himselfe on both

flanks of our march, and of it the double fided battaile, whereof Elianspake

in the 36 and 37 Chapters, may be made by the seeiing up the latter to the former and ioyning reare to reare : and if the leading battaile have the file-

leaders in the right-flank, it is to make alte when the enemy commeth neer,

and the following battaile to sleene vp by the reare of it, to make an even front with the leaders of the first. Contratiwise, if it have the file-leaders on

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the Art of Embattailing Armies.

lians vied not all those kinds but onely that which fileth, but rankes not, as 55

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> > 77 OPPO-

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s ioyned he word it like all hornes, \* Ægyp-:lus) was a Diod.Sie.L.1.p.9 : menociuse of the haken by iape of a f the outeides: the b Diod Sie 1.10. nd Arrian P.78;. the inuen-

Onosader, constande 21. to a Creffat, 2.65. t is , to enter & 1.14-184. bereof, they

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Ælian testifieth in the 46 Chapter, which kinde is there also described. It Elan e 46. and district wis got

where the file-leaders of the leading battaile march: for by such sleening, Words of direction in the Heterostomus.

the file-leaders of both Phalanges shall be in the middest.

There need few words of direction in this, onely if the two ordinary battailes stand in equal front, let the one wheele to the right, the other to the left hand, and so march the one before, the other after.

> Of the horse Rombe, and of the foot-halfe-moune to encounter it.

#### CHAP. XLIIII.



He battaile framed in a forme of a Rombe, was first invented by Heon the Theff lian, and was called He after his name; and to this forme he exercifed and accustomed his Thessalians. It is of good vie, because it hath a leader on every corner: in the front the Captaine, in the rearetle Liucten-

nant, and on either fide the flank-commanders.(2) The foot battaile fittest to encounter this, is the (3) Menoides or Cressent; having both the wings stretched out, and within them the leaders, and being embowed in the middest to enuiron and wrap in the horse-men in their giuing on : whereupon the horse-men ply the foot a farre off with flying weapons, after the manner of the Tarantines, feeking thereby to dissolve and disorder their circled frame of march. Tarentum is a City in Italy, the hosemen wherofare called Acrobolists, because in charging they first cast little darts, and after come to hands with the enemy.

#### NOTES.

Hebattaile in forme of a Rhombe.] Of the Rhombe is sufficiently spoken in Chap.6: before; and in the notes vpon the same Chapter: The manner of framing of it, and the divers kinds therof are there fet down. The Thessa-

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## The Tatticks of Elian, or

fer in this onely, that the first had all the file-leaders on one fide, either on the right or left; this the file-leaders of one battaile on the right, of the other on the left hand. For if the leading Phalange haue the file-leaderson the right-hand, the following Phalange shall have them on the left: If the first haue them on the left, the other shall have them on the right. See the figure. They fe of this form is, when the enemy sheweth himselfe on both flanks of our march, and of it the double fided battaile, whereof Elianspake in the 36 and 37 Chapters, may be made by the sleening up the latter to the former and ioyning reare to reare and if the leading battaile haue the fileleaders in the right-flank, it is to make alte when the enemy commeth neer, and the following battaile to fleene vp by the reare of it, to make an even front with the leaders of the first. Contrariwise, if it have the file-leaders on the left hand . Eefides, this forme hath further vie, and you may frame of it a Diphalange Antistomus, by skeuing vp the following battaile on that side where the file-leaders of the leading battaile march: for by such sleening, the file-leaders of both Phalanges shall be in the middest.

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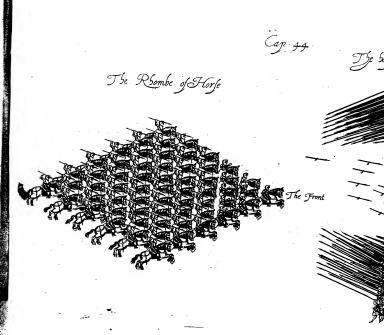
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the Art of Embattailing Armies.

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the Art of Embattailing Armies.

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lians vsed not all those kinds but onely that which fileth, but rankes not, as Elian testifieth in the 46 Chapter, which kinde is there also described. It Elian : 46. was accounted a forme of great violence, & in that forme the Theffalians got all there reputation, being esteemed the the best horse-men of Greece.

2 The foot battaile fittest to encounter this ] The advantage that horse-men have against foot is great, which is the cause that foot-men have sought to helpe themselves by divers kind of embattailing to the end to supply by art, that which they want by force and strength. Of which manner of embattailings, many are fet down in Elian. If more then one troope charge at once, you have the Phalange Amphistomus, Antistomus, and the Plinthium to refift : If but one troope, the Diphalange Antistomus; All which kinds are before described by Elian. In this Chapter is another kind described namely, the halfe moone, and there follow in other Chapters the plagiophalange, the Epicampios emprosthia, and the wedge: Of all which we are to discourse in order

as they are remembred by our Authours.

3 Is the Menocids or Cressant.] Against the Rhombe of horse Elian oppofeth the Menoeides of foot, a name of battaile borrowed from the shape of the moone. For wire is the moone, and the word which is joyned to make vp the composition) fignifieth a full shape or forme. So the word importeth a shape or forme of the moon : and yet this battaile is not like all shapes of the moone, but like to the new moone when she hath two hornes, and hath the shape of halfe a circle as it were: In which sence Isis the Ægyptian goddeffe (which indeed was the moone, faith Diodorus Siculus) was a Diodorus and Diodorus Siculus pictured with two hornes from the shew which sheem keth being menocides, that is, the new rnoone, so is a wall sometime called, because of the hollow forme. As when the Rhodians having their wall shrewdly shaken by the engines of battery of Demetrius, reared an inward wall in thape of a Cressant, which with the compasse, comprehended all the parts of the outward wal which were battered. The fame Diodorus calleth it Menoeides: the b Diod Siel 10 like was don by the Halicarnasseans against Alexander the Great, and Arrian P.783. giueth it the name a viring plumate; a brick halfe moon; the cause of the inuention of this forme, is laide out by one lander & Leo. Oftentimes faith Onolader, constandent. those that have great immbers of men in the field, are wont to figure them into a Cressat, 200.19.45; Supposing that in charging the enemy wil be ready to some man to man, that is, to enter & santa into the semi-circle and fight with them that standen bowed in doing whereof they will be bemmed and wraped in in the halfe Circle, the wings of the halfe Circle being to bee drawne togeth er round about them, and the whole brought into the forme of a Circle. And Leo li kewife . The figure bearing the refemblance of halfe a Circle feemeth to be fafe & firme for it inchfeth the enemy that cometh against it in the hollownesse of the Circle, by drawing out the wings into a Circle on both sides, and giveth more courage to fight age unft them. The causes then to take up this figure in fight are three; one the advantage of multitude of forces in the field, whereby the Generall is a mabled to encompasse; another, the ignorance of the enemy, that ventureth within the compasse of the halfe moone; the third, the efficase of the figi are which serueth to entrap the enemy that is not heedfull and wary in io yning battaile. It hath beene vsed both against Horse and foot, and form etimes in Sea by one Nauy against another, Elian esteemeth it good again if horse; no doubt when horse charge; and are resisted both in front, and plyed also with flying weapons in flanke, they finde a greater,

the Art of Embattailing Armies.

opposition and disaduantage, then when they are received in front alone. In square battailes of soot the front lying even, the horse in charging abide only the danger before, whereas in the hollow fronted battailes of foot, fuch as are this form, and the Epicampios emprosibila, they are endangered also in flanke, yea in both flanks, & cannot enter the hollownesse of the front without losse of many of their horse, the depth of the hollownes being as strong (in having the file-leaders in front, and the depth of the file the fame) as a square battaile to resist, and the wings plying and insesting them with all forts of flying weapons : against foot it hath beene vsed oftentimes, and it is the only forme that the Turks by reason of his multitudes, vseth both with horseand foot against Christians at this day.

Arcadicis 471.

The Creffant may be framed not onely before fight is begun, but also in the heat of fight : Before the fight, you have an example of the Lacedemonians against Epamino. das, which Thaue cited at large in my notes upon the Leve. 19541. 30 Chap. Levels for fetteh downe the manner of casting a Nauy into a Creffantibefore fight. During the fight, Aratus the elder framed a Creffant against the Lacedemonians: Paufanias reciteth it in this manner; In the battaile of the Lacedemonians against the Mantineans, The Mantineans, fish ke, had the right wing, all the rest of the Arcadians the left. The me dest was of igned to Aratus, and to the Su yonians, and Achaans. Agis King of Lacedemon, and the Lacedemonians firethed out their battaile to inuade the front of the enemy. Agis and his troopes flood in the middest. Aratus after he had imparted his purpose to the Arcadians, fled him filfe, and with him that part of the army which he commanded, as if he feared the impr fison of the Lacedemonians; in giving backe heebrought the army into the forme of an halfe moone. The Lacedemonians and Agis thinking they had the victory in their hands, pursued Aratus and his troopes more egerly. The wing fellowed the King, efteeming it no small conquest to have foyled Aratus. In the meane time they precessed not the Arcadians that were at their backe : and the Lacedemonians being encompasses round about lost both many other of their army, and Agis also their King, the sonne of Eudamidas was flaine. Leo also in sea fight giverh his Generall counsell how to entrap his enemy with a thew of flight; in giuing backe with fashioning an halfemoone: These be his words in effect; e If a Generall be to retire before the enemies Naur, let him retire, fashioning his Nauy into a battaile Menocides, and failing with his poupes forward, and To seeme to shunne the enemy : For if he flye not, but retire fighting, hee shall have his Ships ready to turne upon the enen y with their prowes bent against him. And if need require, be may retire with his poupes toward the enemy : for the enemy shall not dare to emer into the hollownesse for feare of being encompassed. So Leo. The Menocides therefore may be framed during fight; but this caution is to be remembred, that in sudden transmutations of battailes, you vie not the service of raw fouldiers, but of such as have experience, lest all be brought into confusion; and the enemy charge you while you are changing your forme. Now as formes of adl antage are to be fought against the enemy; so is it needfull to aduise what best opposition is to be made against such battailes: in case the enemy vse them. The Rombe of horse was of old time accounted a forcible figure against foot; the horse therein had the better. The Menoeides was inuented to refist and ouerthrow the horse: The foot had beene the better; what was then best for the horse? to abstaine from charging (saith Elian) and to ply the foot with missive weapons, to the end to force them to break

their strong forme of embattailing. So now they stand upon equal tearmes and the loot can with their thot annoy the horse, as well as the horse can un-'noy the foot. Alian then sheweth a meanes for the horse to avoide the danger of this manner of embattailing: for foot ving this forme against foot, hee sheweth no remedy. I will set downe what I finde: and here I neede not to repeat the remedy, that b Epaminondas vsed against the Lacedemonian b Diod Syc. 1. halfe-moone : it is related at large in my Notes vpon the 30 Chap. Onofan. Onofan. cap. der giueth this aduise : Divide your battaile, Saith bec, into 3 parts : with the two 66 Lee. cap 200 outwardest charge the Enemies winges : the third that is ordered against the middle, 5. 184. and as it were, the bosome of the Cressant, advance it not, but let it stand sirme; for either they that are placed in the middest of the Cressant, shall fand idle; or else aduancing in an cuen front, will throng one another and breake their battaile. For the two fronts fighting in the winges and keeping their place, it is not possible for the halfe circle to come forward with an even front : when they are therefore confused and have broken their array, let the third battaile that remained in the middest for seconds, charge them, as they disorderly advance. If they still keepe their place in the bottome of the hollownesse, oppose the light-armed and darters against them, who will exceedingly distresse them with their missive weapons : likewise you may doe well to frame a Loxe-phalange of your whole Army, and with your two Loxes, charge the winges, preuenting fo the circling and encompasing of the Menoeides. For the Enemy, being a long while hindered from comming to blowes with his whole Army, shall bee kept in play with a few, none fighting but those onely that are in the winges, which first of n.c. sitie must ionne, because of the oblique onset. It will not bee a misse also, hisurely to retire with the Army sometimes, as though you were in feare; or else facing about to make your retreat orderly, as if you fled; and afterward turning sudd inely to meete the Enemie that present upon you. For sometimes the Enemie being over-loyed in the imagination of a true flight, doth follow unadvisedly, and make a disorderly pursuit; every man pressing to be formost, upon whom you may returne without danger, and againe, chase them that foliow you who will be frucker with a fear in that you lare contrary to their expectation, turne again & make head against them. One fander giveth here three wayes to relift the Menoeides : one by dividing your battaile into a Triphalange, & opposing two phalanges against the two wings of the Cressant, forbearing and standing firme with the third till opportunity be to moue (which is the battaile that Elian opposeth against the Calembolos.) The second by vsing the Loxe-phalange against it, as did Epaminondas at the battaile of Leustra against the Lacedemonian halfe moone, as I have shewed elsewhere, namely Chap. 30. 6.7. The third in making femblance of flying; for the halfe moone is a forme, which in funding may well be kept whole, in mouing will foone be broken and fall into disorder, as \* Cicuta an Italian writer noteth very well. If then you faine 2 Cicuta de la to flye, keeping your men in order, the Menoeides following you will breake distingtion. of it selfe, and so you have good opportunity to returne, and in all likes shood to win the day again tit, especially being in disorder. Lee giveth the same the same aduise to his Generall, onely he speaketh of Sea matters, Onesander of Land 5-291. feruice.

Words of direction for the Rhombe.

For the forming of the Rhombes, see the 19 Chapter, and my Notes vponthat Chapter, 6,6,

## The Tadiks of Elian, or

## For the Creffant.

First order your body into a long square, Plagiophalanx

I The 2 file-leaders in the middeft of the square, stand.

2 The next 2 on either hand, mooue forward one foot before the other two, their files mouing withall, and holding their distance.

3 So the 4 next file-leaders each before other, on either fide a foot, 4 Then two more on either fide, aduance before the rest that mooued two foot a peece.

5 Then the 2 next on either fide, 3 foot apeece.

## To restore to the first Posture:

Face about. Moue all at once (excepting the 2 middle files) and take your first ground.

Of the Horse battaile Heteromekes, and the Plagiophalange to bee opposed against it.

### CHAP. XLV.



HE horse-battaile Heteromekes is that, which hath the depth double to the length. It is profitable in many repects. (1) For feeming to bee but a few in fo small a breadth, it decement the Enemie, and easily breaketh his forces with the thicknesse & strength of the embarrailing,

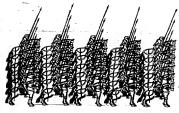
and may without perceiving be ied through fireight and narrow passages. The (3) foot battaile to encounter is called the r lagiophalange, or broad fronted battaile. For being but flender in depth, it beareth foorth and extendeth it selfe in length, so that albeit it be broken in the middest with the charge of Horse, yet is nothing broken but a little of the depth, and the fury of the Fiorse is carried not vpor the multitude of foot, but streight and immediatly into the open aire and field. And for that cause is the length thereof much exceeding the depth.

## NOTES.

I F the 2. battailes Heteromekes and Plagiophalanx I haue spoken before in my notes vpon the thirtieth Chapter. The Heteromekes is a kinde of Herse, the Plagiophalange the broad fronted battaile therein mentioned.

2 For seeming to be but a few.] Amongst all the stratagems vsed in Warre, it hath beene accounted alwayes a master piece of skill to deceive the Enemie with shew of forces, that are in any Army: sometime with femblance of more men, then wee have, to feare him, fometime with concealing our number, to prouoke him rathly to fight, and adventure himselfe in battaile. Of these two kindes we have an example in Cefar at the siege of

Heteromekes or y Hene of Hone





Gergouia. Cafar himfelfe writeth thus : When Ca far came into his leffer Campe Cofade bell gell. (bee had two Campes at that fiege) to take view of his workes, he perceived that the \$7.763.4.64.1. bill which was holden by the Enemie, was become emptie of men, which hill a few dayes past, could hardly be seene for the multisude, that covered it. Maruelling thereat he asked of the run awayes the cause (of whom great numbers came flocking to him every day:) It appeared by all their reports, which Cafar also understood by his owne Scoutes, that the ridge of the hill was almost even, but yet wooddy and narrowhy, which there was accesse to the other part of the towne. That the Enemie mightiby feared that place; and were now of opinion, that feeing the Romans had gained one bill, if they should lose the other, they should seeme well nigh enclosed round about with a trench, and shut up from issuing out, and from forrage; that all were called out of the Citie by Vercingetorix to fortifie the place. Catar having a The french Co gotten this intelligence, fent at midnight divers troopes of horfe thither, and comman netall. ded them to rid up and downe in all places with greater tumult, then their manner was. Assoone as it was day, hee willed a great number of carriage-horse and Mules to be brought out of the Campe, and their pads to be taken off from them, and that the Muleters putting on head-pieces, should ride about the hils in shew, as if they were horse-men. To these he added a few Horse, who were to spred themselves abroad hereand there, to amase the Gaules the more. Hee willed them to addresse themselves, and to draw to one and the same place, fetching a large compasse about. These things were seene a farre of out of Gergouia (for from therice the Campe might well be discerned) and yet in such distance it could not bee certainely perceived, what the matter was. He fent a legion along the ridge of the same hill, and placed it (drawing it a little further forward) in the nether grounds below, and hid it in the woods. The Gaules here Nathon at increase their suspition, and all the forces appointed for the fortifications of their Campe were led thister. Cafar efpying the Campe of the Enemie to be worde of men, conneyed Souldiours stragling, as it were, and not in troopes, from the greater Campe unto the leffer, hiding thefe things, by which they might be knowne, and covering their ensignes of Warre, left happily they might bee discried out of the Towne: and gaue instructions to the Legats, whom he had let ouer every Legion, what he would baue done. After these directions bee gave the signall: the Souldiers after the signall given, with all speed fell up to the Munition, and entring, made themselves masters of three Camps of the Enemie. And the speed of their surprise was such that Theutomatus King of the Nitiobrigians, being suddenly surprised in his Tent, as he refted about noone, the upper part of his body being naked, had much adoe to fave himselfe upon his horse (which was also wounded in escaping) from the hands of therifling Souldiers. This example of Cafar containeth the two kinds before remembered of deceiving the Enemie. For hee both made a greater frew of horse-men, then hee had, by setting Muleters on horse-backe, and giving them head-pieces, and also diffembled the number of them, who were in the leffer Campe, which gaue vpon the Enemies workes; by conveying Souldiers out of the greater Campe piece meale, as it were, and one after another. The like pollicy yeelded victory to Cafar against the Gaules before: as you may see in the fift booke of his Commentaries. And in this very kinde, that Ælian speaketh of, that is, in making his front narrow and his cela divisal battaile deepe, and so diffembling his forces, Cleandridas the Lacedemonian 1.5. PACTARE. wonne a noble battaile against the Thurians, as I have noted in the nine and twentieth Chapter of this booke. Examples of the manner of these flights are enery where to be found in Histories.

3 The foot battaile to encounter it. Divers kindes of battailes are fitter (as I conceiue) to bee opposed against this horse-battaile, then the Plagiophalange. And, I take it, it is not therefore here fet downe as the best forme to encounter, and repulse the horse, but rather to shew, that, if you bee not otherwise able to avoide them, you may in this forme sustaine the lesser losse. For so much importes the reason of Ælian viz. that, if you be broken in the middest by the horse, yet is nothing broken, but a little of the depth. and the fury of the horse is carried into the open field, & not vpon the rest of the foor. If your foot battaile were flanked with a river, wood, trench, wall. or some such other strength, I would then well hold with this reason. For then might the foot open (as in the Diphalange Antistomus) and suffer the horse to passe through, and to fall into the river, or vpon that strength, which you were flanked with all. But when the horse breake through your foot, and paffe into the open field, they have advantage to turne againe vpon your backe, and freedome of as many charges, as they lift to give voon you. The Plinthium, the halfe Moone, the Epicampios, or hollow-fronted battaile described in the next following Chapter, and the wedge of foot, are to be preferred before the Plagiophalange. For all these kindes are inuented to repulse horse, in what forme soeuer they give on, and some of them, in case the horse be forward in charging, to ouerthrow and discomsit them. Of some of these we have spoken before, other some follow to be treated of. The Heteromekes horse battaile, is not in our dayes much vsed, except it be in marching. The great Commanders of our time, rather in fight, order their horse into a Plagiophalange; which forme they hold more fit for thevse of the weapons of our age. But the Plagiophalange of foot remebred by Elian to encounter horse, ought to be very shallow in depth. For if it should be according to the old fashion, 16. in depth (which number the file of the Macedonians held) or according to our custome 10. I fee not how it is possible for a troope of horse to breake it, or to passe through it into the open field, the depth of the battaile being sufficient to sustaine the charge of any horse. How the Heteromekes, and how the Plagiophalange are framed, I have taught before in the thirtieth Chapter.

> Of another kinds of Rhombe for horfe-men, and of the foot-battaile called Epicampios Emprofilma 10 encounter it.

#### CHAP. XLVI.



Nother fort of Rhomboeides there is, whereof I neede say no more, but that it fileth, and ranketh not. I have before thewed the vse thereof; and that Hon the Thessalian was the inventer, and that Is an Acedea husband put it in practise: the vse thereof is great, it being directed and led in the foure sides by the Captaine, the Lieutenant, and the two

flanke-commanders. It is commonly fashioned of Archers on horse-backe, as the Armenian, and Persian manner is.

Against it is opposed the foot-battaile, called (2) Epicampios Emproschio, ont is h the f the them finalwas e, it ftanf the :: if ulke

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thia, the hollow fronted battaile because the circumduction of the front is like an embowing. The end of this forme is to deceive and over-reach the Archers on horse-backe, either by wrapping them in the void space of the front, as they charge, and give on vpon the ipune, or elfe difordering them first with the winges, and breaking their fury, by ouerthrowing them finally with their rankes about the middle Enfignes. This kinde of battaile was denifed to entrappe and beguile. For opening the middle hollownesse, it maketh shew but of a few, that march in the winges, having notwithstanding thrice as many following and feconding in the reare. So that, if the wings bee of power sufficient for the incounter, there needeth no more: if not, retiring easily on either side, they are to joyne themselves to the bulke of the battaile.

#### NOTES

(1) A Nother fort of Rhomboeides there is.] The inscription of this Chapter (Rhomboeides forme of the Rhomboeides here mentioned, differeth not, but is the same, that was last spoken of. In the former hee faid it was invented by Ileon the Theffalian, and in vie a-a Conte mongst the Thessalians, and called ile of his name. In this he saith as much. adding onely that Islon, Medeas husband, who was also a Thessalian, put it most in practise. So that the Rhombes seeme to be all one, and the inscription of the Chapter either corrupted or mistaken; and that it ought to bee of the Rhombe and the hollow-fronted battaile to encounter it. I need say no more of this Rhombe, the forme of it, the manner of traming, and the difference of it from other Rhombes are sufficiently declared in other places before.

(2) Against it is opposed the Epicampios Emprostina, About the forme of this battaile there is also some difference amongst the learned. Casaubon in his translation of Polybius translateth b Epicampios in Greeke Dy the Latin word b Polib. 28.8-423 translation or Polyptus translated. Ly campus in Alexa differ from for Bossio. Forceps. Of whose opinion all luftus Ligitus feemeth to be. If I differ from for Bossio. great learned men vpon good reason and authoritie, I hope, I shall not in- tialogo, page 279 curre the opinion of arrogancy, when I have spoken, what I thinke, let the Reader judge, as hee pleafeth: I presudicate no mans opinion. For the forreps (tonges) or Forfex (sheeres) which Lipsius, and Cafarbon hold to be all one with the Epicampios, "Vegetius refembleth them to the letter V. His "Vegetage" words are these: Against it (that is against the wedge) the sorme of battaile is opposed, which they call Forfex. For this is a kinde of battaile framed of the chorcest Souldsers to the likenesse of the letter V. and it receiveth and shutteth within it the wedge. Vegetius saith, the Forfex or Forceps is like the letter V. Of this forme is the Calembolos in Elian; and resembled to the same letter in expresse tearmes; as you may see in his thirtie sixe Chapter. So that having the same forme, it must be the same battaile, how soeuer they differ in the Greeke and Latin names. This being fo, and feeing Llian in this Chapter describeth the Epicampios by it selfe, and in another Chapter the Cælembolos by it selfe giving a different forme to them both, there is no probability to thinke they mould be one. Now besides the forme here set downe by Elian, (which is to bee marked, as it is deferibed;) the description of Xenophon shewes the forme of the Epicampios Emprosthia, out of whose words a man may eafily differne, that the Cælembolos and it are not all

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in this fort [1] and you have the perfect forme of the Epicampios Empro-

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fthia. The passage is worth the recitall, although it be somewhat long. For it both containeth the forme of the battaile, and the manner of opposition against it. Thus then he writeth concerning the field fought betwixt Cyrus xinoph Grov. '7. the elder, and Crafies: When both the Armies were in fight one of another, and Cræfus being farre superiour in number, resolued to ouer-front Cyrus his battaile, ordering his owne Phalange in an embowed forme ( for otherwise there is no way to ouer-front and encompasse) he framed it on each side like the letter f to the end that all his forces might fight at once together. Cysus feeing this, continued neuertheleffe his march, and held on with the same pace he had done before; and marking how the Enemy had made a the inflexion on both sides before, and extended their wings; doe you perceine, fild be to Chryfanthas, where they have made their b inflexion? Tes. faid Chrysanthas, and I maruaile at it. For, me thinkes, they draw their winges to turre forward from the front of their owne Phalange. True, (aid Cyrus, and from our Phalange too But why doe they fo? because they feare, lest the winges being neere to us and their Phalange yet farre of, we should gine upon the winges. But how, faid Chryfanthas, can they in fo great distance second one another? It is evident, (ud Cyrus, that when their wings shall come up, and be right against our flankes, they will turne faces and Phalange wife come against ws on all sides, and fight with US CHETY TOAY.

\* TOY YOUTTHER • בשר בּ בְּשׁלְשׁבְּיִבְּיִ בְּיִלְשׁבְּיִבְּיִּ b thi impurbs.

Xonoph Cyron. 1.7.176.1.

יש שנפיד: "

Thus Xenophon of the forme and wfe of this battaile; the forme being like two Gammas []. on either fide closed, the vse to encompasse the adverse battaile, and to fall vpon it on all fides. And yet the forme and practife of the forme togither with the manner to oppose against, will more plainely appeare in the following words: Croefus, faith Xenophon, thinking that the Philange (viz. the middest of the battaile) with which himselfe marched was neerer to the Enemie, then the wings, which were stretched foorth in length, gaue a signall to the wings, not to proceede further, but to face to the Enemy in the ground, where they flood; when they had all turned their countenances toward the Army of Cyrus, he gaue them another signe to goe and charge the Enemie. So did three Phalanges fet them clues against Cyrus Army; the first against the front, the other two, one against the right-flanke, the other against the left : So that the whole Army of Cyrus were put into a great feare. For as a small Plinthium comprehended in a great one, so was the Army of Cyrus being environed every where with the Enemies horse, and armed foc: and Targetires, and Archers, and Chariots, fauing onely in the reare. Notwithflanding affoone as Cyrus commanded, they turned their faces against the Enemies . The lilence on both lides was great for dread of that, which was expected. But when CVEUS thought meete, he began the Paan, and all his Army answered him. After this they I flouted altegether, and Cyrus putting fourres to his horfe, with his horfewas gave upon the Exemies flanke, and with all feed came to hands. The foot prelinels following in good order wrapped in the Enemie here and there, and had a great deale the letter; For they charged the wing in a Phalange, so that the Enemy was for imput put to flight hitherto Xenophon. In which latter words we may fee the forme of the Epicampios more fully expressed. For first hee sheweth that wings of the Phalange of Crasus were advanced a good way before the front of the Phalange it felfe. Then that the front of these wings advanced, come up as far as the reare of Cyrus his Phalange. Thirdly, that they marched vp in a right line. For xecophen telembleth Cyru, his battaile to a little Plinthium, the battaile of Grassa to a great Plinthium, so that both battailes must be fquare & figured on al tides in right lines, as we have in the 42 Chap. Fourthly, that the front of the Epicampios must be hollow to receive and claspe in, as it were, the adverse battaile: the two gammaes (whereof Kentphon spake before) joyned together in the vpper part being a true relemblance of the front of this battell. The manner of the opposition against it is likewise deferibed by Xenothon. First Cyrus staid till the wings of the Epicampios were Front. come up euen, and turned their faces against his flanks. Then when they were come vp, commanded he his flanks to face toward them to receive the charge. When the fight was begunne, Cyrus from the reare with referues of horse and soot gaue upon the flanks of the wings of the Epicampios (for in the fight, by reason of turning of their faces towards the danks of Cyrus his Phalange, their flanks were towards Cyrus his reare) and so charging them in flanke and front they were easily defeated. To returne then to the compatifon of the Forceps and the Epicampios, by this example out of Xenopleon the difference betwixt them may eafily appear:

the Epicampios making 2 angles in the bottome of the hollow frot, the forces but one, & the angle in the forceps is acute, the 2 angles in the Epicampios both right angles,& the figures differ as much one fro another,

as the two gammaes io ned toget er differ from the letter V. Elian in this as the two gammaes to need together different from the letter viewinhin in the Chapter sheweth no otherwise of the Epicampios, but against horse. But the viewing this former example teacheth, & many other, which the smeath plade; are to be found partly in History, partly are mentioned in my notes upon sica. Access. this booke. A notable experience of this forme you may see noted upon the 28 Chapter of this Booke, in the fight betwixt Scipio and Asdruball; another in the battaile of Milmanes at Marathon, against the Persians: likewise in the battaile of Narfes against the Franks, of which I shall have occasion to speak hereafter. For the framing of this battaile the words of direction may be these: First, make a broad fronted Phalange. Then

Advance your right and left wings, and let the middest of the barraile itand firme. Vnder the name of the wings, I vnderitand fo many files as shall be thought enough to march out to make the hollow front: the bringers up of wings must ranke with the file-leaders of the middest.

2 Face and charge into the hollownelle of the front.

## To rest. re to the first Posture.

- x Wings, face about to the right or left hand.
- 2 March and joyne with the body in an even front.
- 3 Face as you were first.

There is added by fome translators of Alian an Epicampios opisthia to the Epicampios emprosthia. This battaile they would have to be fignified in their words. This kind of battaile was devised to entrap and beguile. But hee that sha' weigh the words following, shal see that Elians meaning is to describe the Emprosthia more fully, even in the selfe same place. For he spea-

keth of the fem that march in the wings, and of thrice as many that follow in the reare. Belides, he faith, that if the wings be not sufficient to repulse the enemy, they may retire and toyne to the bulke of the body. The wings are therefore led on first and the malle of the body followeth, whereas in the Epicampios opithia, and the malle of the body followeth, whereas in the Epicampios opithia the wings are firetched out behinde, and follow the body. And albeit there be in Elian no words of the Opithia, yet I may not deny that there is an Epicampio opithia. Epicampiot Opisthia : Suidas proueth it plainely; He defineth the Eminatures imdia, thus : It is called Epicampios when the battaile advanceth against the enemy, and hath the wings drawne out in length on both fides behind. The vie of the Opifithia is as it feemeth, to avoid the encircling or encompassing of an enemy, that hath a greater quantity of fouldiers then we, and meanes to charge our reare. Alexander the Great, being farre inferior to Darius in multitude of men, vieu this forme at Arbela. Diodorus Steulus faith, that after he had ordered his battaile against Darius in a right front, hee framed an ter ne man ordered his battaile againt Darine in a right front, me frame an Epicampios behind each wing, to the end of that the enemy with bis multitude might not encompasse the small number of the Macedonians. And this may suffice for both the formes of the Epicampios.

Words of direction for the Epicampios Opisthia.

1 Aduance your body, and let the wings stand firme.

2 The wings of one flanke face ontward to the right, the other to the left hand.

To rustore, &c.

wings face as you were.

2 March vp, and front with the middeft of the body.

Of the foot-battaile called Cyrte, which is to be fet against the Epicampios.

CHAP. XLVII.

b pied.Sic.L17.

HE Barraile to be opposed against the Epicampios is called Cyrte of the circumferent forme. This also maketh semblance of small forces, by reason of the conuexity of the figure. For all round things feeme little in compaffe, and yet ftretched out in length, and fingled, they proue twice as much as they appeared to be. As is eui-

dent in Pillars which are round, and therefore in fight shew the one halfe, and conceale the other. The greatest piece of skill in embattailing, is to make shew of few men to the enemy, and in deed to bring twice as many to fight,

the Art of Embattailing Armies.

yrte or convex half Mone

The Epicampios

NOTES

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"HE forme of this battaile, albeit it be a halfe Moone, and is called by Polybius Menocides, yet is it in a manner contrary to the Menœides described in the 44 Chapter of this Booke. That turned the concauity or hallownesse backward toward the reare, and the two hornes against the enemy, and fought to encompasse, this turneth the convexe or outward pare foremost, nor the hornes, and endeauoureth to avoid encompassing: For the Epicampios, if a man should enter into the hollownesse thereof, claspeth him in, and is able to charge him in front, and on both flanks at one time. But the convexe halfeMoone avoiding that danger, meeteth the enemy with the bearing out of the halfe circle, and giveth the two wings of the Epicampios enough to doe, being not to be annoyed with the depth of the hollownesse, which remaineth a pretty distance more backward then the points of the wings. So that this forme is fit to be opposed against the Epicampios, and loofeth no advantage of embatrailing; and it avoideth the perill of the hollow front by not entring, and yet maintainerh the fight against the two wings that are thruit out to encompasse; being of sufficient strength to encounter the Epicampios, either of them not dissoluing their forme, or notwith flanding that the wings of the Epicampios retire, as Elian prescribeth. when they are ouerpreffed, or elfe the body of the hollownesse advance to make an quall front with the wings, and so vnite their force. Howeit I have not read in the Greeke hittory examples of this forme fer against the Epica noios, or vied otherwise in fight; onely I finde in Polybius at the battaile of Canne hat Hannibal practiced it against the Romans, not trusting to the firength of the forme, but rather with the shew thereof, couering a further drift, to beguile and bring them into his snare. His words are in ctfect these: Hanniball, saith he, embattailed his army thus; He placed on the left hand the Spanish and Celtish horse right over a ainst the Roman horse: next to them of foot halfe the Lybian heavy armed; then the Spaniards and Celts, next them the other halfe of the Lybrans. On the right wing he ordered the Numidian horfe: After ne had framed an even front of the whole Army, he advanced the middle Spaniards and Gauls, and cast them into a convexe halfe Moone, gathering up the dip h therewith and making it thin, meaning to hide the Lybians with it, and disposing the Lybia ans behinde them as seconds. And a little after he declareth the manner of fight. Then the heavy-armed foot succeeding the light armed, encountred together. The Spaniards therefore and Gauls a while brauely maintained their order and fight against the Romans; but being ouer-pressed, they turned their back, and retired, dis-Coluing the forme of their half. Moone. The Roman Cohorts couragiously following cafily broke afander the battaile of the Celts, which at first was or icred in a small depth; themselves transferring the whicknesse of their battaile from themings of the middest; where the fight was; for the middelt and the wings fought not at the same time. I he middest began the fight first, because the Celisranged in a halfe Moone, bore much more forward the the wings, having not the hollownes but the prominent swelling of the half-Moone lying out toward the enemy. So the Romans following & running together to the middest where the enemy gave groud, entered so far into the enemies battaile, that they had the heavy-armed Lybians on either of their flanks; of whom those of the right wing ficing to the Target charged them on the right those of the left wing, facing to the pike, gane upon their left side soccasió it selfe shewing what was sit to be done so that it chaced

The Tatticks of Ælian, or

as Anniball had forescene, that after the defeat of the Celts, the Romans pursuine the victory, should fall out to be enclosed in the middest of the Lybians. So Polibius of the prominent halfe moon or Cyrte, which Annibal vsed; to which of purpose he gaue to make thinnede, because it should be broken & beaten, and the enemy drawn into the snares as it were, and ambush of the seconds, that is, of the Lybian heavy armed. If it had had the due proportion of depth, it might have flood a longer time against the efforts of the enemy, and disputed the victory against the broad-fronted phalange; against which if it may be opposed, there is no question but it may be set against the Epicampios, because the broad-fronted phalange hath all her forces vnited together, the Epicampios fighteth onely with her two wings, the middest of the battaile being farre from ioyning; vnlesse a man be compelled to enter into the hollownesse of the front, in which case both the front and the wings may annoy him.

#### Words of direction for the Cyrte or consexe balfe Moone.

First, order the body into a long square or Plagiophalange. I Then let the two file-leaders in the middest of the square march

out with their files. 2 The next two on either hand moveright forward one foot thort of the first, keeping distance in flanke, as before.

3 So the next four e, two on each fide: the two next one foot fhort of the last, the other two one foot short of them.

4 Then the next foure, two on each fide, each two foot short of

5 Then the foure last, two on each side, each three foot short of the other.

#### Of the Tetragonall Horse-battaile, and of the wedge of foot to be opposed against it.

#### CHAP, XLVIII.

He Tetragonall horse-battaile is square in figure, but not in number of men. For in squares the number is not alwayes the same: and the Generall for his advantage may double the length to the depth. The Persians, Sicilians, and most in number of men. For in squares the number is not alwaies

of the crecians doe affect this forme and take it to be easie in framing, and better in vie.

(2) Against it is opposed the Phalange called Embolos, or Wedge of foot, all the fide confifting of armed men. This kind is borrowed of the horse-mans wedge. And yet in the wedge of horse one sufficeth to lead in front, where the foot-wedge must have three, one being vnable to beare the fway of the encounter. (3) So Epaminondas the Theban fighting with the Lacedemonians at Mantinæa ouerthrew a mighty power of theirs by cashing his army into a wedge. (4) It is fashioned when the Antistomus Diphalangy

the Art of Embattailing Armies.

in marching ioyneth the front of the wings together holding them behinds like vnto the letter

as Anniballhad foreseene, that after the defeat of the Celts, the Romans pursuing the victory, should fall out to be enclosed in the middest of the Lybians. So Politius

of the prominent h pose he gaue to me the enemy drawn i is of the Lybian he might have flood ted the victory age be opposed, there because the broad. Epicampios fighte being farre from i lownesse of the fre noy him.

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of the crecians doe better in vie.

(2) Against it is c foot, all the fide co horfe-mans wedge. front, where the foo fway of the encount Lacedemonians at A his army into a wed

in marching ioyneth the front of the wings together, holding them behinde

## ZOTES.

(1) This Chapter containeth the description of two battails, one of horse, the other of foot to be opposed in fight one against another; namely the fquare of horse, and the wedge of sor. Of which the tetragonall horse-battaile, square in sigure, or ground (for all is one) is described in my notes vpon the 18. Chapter of Elian, as also the wider of horse, from which this wedge of foot (as Alian faith) is derived. It will be therefore needlesse to repeat, what is there written about the formes and diverfity of them; or to make comparison of their vse and advantage. Against the Rhombe of horse, if they come to charge foot, he hath fet downe two formes of foot to receiue them; the Cressian and the bollow fromed battaile called Epicampios emprossina: which vpon this reason, because they are hollow in front both, and the Rhombe thooteth forth and chargeth in a point, must of necessity by receiuing that point into their hollownesse, and plying it with their weapons on all sides, distresse the Rhombe both in front and flanke, which is a dangerous kinde of fight, and fuch a one as feldome may be tolerated or endured. (2) Against the square horse buttaile in figure or ground, he opposeth in this Chapter, the wedge of foot, which albeit it cannot with the like art wrappe in and encompasse the squire, yet is it of force sufficient to breake and diffeuer it, and foto diforder and deface it. For the square of horse hauing a large front and going with full speed to charge, falleth vpon the narrow

front of the wedge, which according to Alias ought to containe no more then three men, and they knitting themselves cloie, their pikes prerended and being feconded with the rest of their companions behinde pretending their pikes likewise, receive the charge with a firme sland, so that onely the middeft of the horse falling vpon the point of their front; cannot reach to the flanks of the wings thereof (because the wedge from the first narrowing groweth backward into an increasing breadth) without breaking of their forme, and altering of the front of their square, wherein they were ordered: which if they doe, their repulse cannot but follow, because they fight out of order. Now that the forme of the wedge in horse is able to endure the that of the horse, that came against them in a foure, appeareth by the 13. Chapter of this booke, where it is faid that Philip King of Macedon, Alexandors father vied this forme alone, and that Alexan er himselfe ordered his horse in the same manner, who were both vistorious in all their fields. That It is as good for foot against horse, besides the reasons before rehearsed may be euident by this, that the horse are in motion in the charge, and by that meanes are foone difordered, whereas the foot fland faft, and keepe themfelues secure to repulse the violence of the horse.

3. So [paminondas the Theban] This battaile is excellently described by \* Temephon in his feuenth booke of his history of the Grecians. His words found thus: After Eparminondas had embattailed his army, as he thought fir, a Keeph Helea. be led not freight was a cainst the enemy directly but delined meltoward to 172.645.D. be led not freight way against the enemy directly, but declined westward toward the Legan mountaines lying right over against the enemy, which bred an opinion, that be bad no will so fight that day. For after he came up to the mountaine and had ta-

· iranaßen sa

4 derlapopes. The cas, with the point of the wedge against the enemy.

Fhuins.

ken a view of his army, he canfed them tob lay downe their armes in the vopermost part of all as if he meant to incampe; and by this meanes allayed the preparation of fight which most of the enemies had conceived in minde, and likewile their care in maintaining their place and order in battaile. After seeing vi to the front, his companies that marched in a wing, hee fashioned his whole army into a strong wedge. Then commanding them to take up their armies, he led on, and they followed. The enemy (seing him advance contrary to their expectation, nad no leifure to be fill, but Some ranne to their place in battaile, some embattailed them felucs, some brialed their borfe, ome put on their curaces all were like to men, that were like rather receive then give a forle to the enemy. Epaminondas led on his army like a gallie with the a prome against the enemy imagining that where sower he should breake their array he should thereby overthrow their whole army . For he resolved to bring the best and strongest part of his army to fight, casting the weakest behinde in the reare, knowing that but g defeated they would discourage their owne side, and breed new courage in the enemy. The enemy ranged his horse like a phalange of armed foot in a great depth without toyning foot with them. But Epaminondas made a strong wedge of his horse also allotting them o foot which had no herses, conceiuing that cutting afunder the enemies horse, he should easily overthrow their whole army. For you shall hardly find any, that will make good their ground, after they fe them of their owne fide take themfelucs to their feet. And to the end, to with hold the Athenians from Succouring thof of the left wing next wnto them, he placed both hor fe and frot right over as a inft them ofon the hils, to put them in feare of charging their reare, if they gave and onto the enemy, fo led he on to the charge, and was not de eined of his hopes. For having the better whereforuer he gave on, he put the whole army of his a verfaries to flight. So Xemphon . Where you may note not onely a Iquare of horse defeated by a medge of horse, but also a square battaile of foot descate by, a medge of foot. And to show more plainely, that the forme of the wedge is forcible against a broad fronted Fhalange, I will recite two examples more. The half is out of T. Liurus, who writeth of a battaile fought betwixt the Romans and Celtiberians thus. The Celtiberians knowing that the Roman army having spoyled their "untrey, would retire through a forrest called Manlius his forrest, hid them-. of purpose, to the end to full upon the Romans upon advantage and unloaka . When the Roman army had entred the forrest by day-light, the enemy rifine out his ambush woon the suiden invaded them on both flacks. Which Placeus (bee was the Roman Generall) feeing, stilled the tumuliby the Captaines commanding euery man to his place, and armies, and bringing the baggage and carriage beafts together , be constantly and without feare embattailed his army partly by himselfe, partby his Legates and by the Tribunes of the fouldiers, as the time and place required; The every came on, and the skirmish was attached in the vetermost parts of the Roman Phalange, and at last the batta les toyned. The fi ht was het in all parts, but fortune divers : for the Legeons behaved themselves bravely, and the auxiliarie: in both wings as well. The mercinaries were hardly laid unto by the enemy (who bore the like armes, and was a better kind of foul dier ) & had much ado to make good their ground. The Celtiberians when they law they could not match the legions in the ordinary manner of fight, and Enligne ag inft Enligne, caft them felues into a wedge, and fo affay led the Romans : in which kind of fight they are o powerfull, that they are fearcely to berefifted. Then the le ions also branced, and the battell was almost broken. Which danger when Flaccus perceived, he rode to the legionary hor emen And is there no helpe in you said he? This army will immediately be loft. When they cryed out at all

bands, they would gladly doe what soener he commanded. Double the troopes, said he of both legions, and with all your might force your horse against this wedge of the cnemy, wherewith they presse vs : you ball doest more violently, if you give on, drawing off the borfes bridles which the Roman horfemen have often done heretofore to their great comendation. They obeyed, and pulling off their horfes bridles they pulled & repafled through the enemics wedge twice with great flaughter, everyone breaking his faffe. The Celtiberians after the breaking and dispersing of their wedge, in which all their hope remained, began to be afraid, and almost quitting the fight, (ought where they might best to saue themselves. Hitherto Liny. In which pallage a man may obferue the violence of the wedge, which if it be rightly managed, is of wonderfull power to breake and dispart any square it shall fall vpon. The other example or precedent, is out of a Agathas, where he describeth the battaile betwixt Narfes (the Emperour Iustinians Lieutenant, and Bucelinus Gene- Agaisia 12.11, rall of the French-men. He hath thus. Narses when he came to the place where 39. the fight should be, ordered presently his army into a Phalange. The horse were ranged in the wings; Himselfe stood in the right wing, and next him Zandalas Captaine of his followers, and with him all his mercinary and houshold scruants; that were not unfit for the warre, wo on either fide of him was Valerian and Artabanus, who were commanded to hide themselves a while in the thicke of the wood, that was thereby: and when the enemy isyred, to fall out suddenly and unlooked for upon them, and to put them into an amazement. The foot had all the space in the middest, and the fileleaders soyned shoulder to shoulder being armed with curaces and other pieces of armour reaching downe to the foot, and with caskes: Behind them were other fouldiers ordered euen as farre as to the open fields. The light armed and fuch as veed flying weapons were cast in the reare expecting a fignall of employment. The middest was reserved for the Heruly and remained empty, because they were not yet come up . Bucclinus advanced his battell, and all ran cheerefully against the Komans, not leifurely, and in good order, but rashly and tumultuously, as if with the very cry they would have rent afunder all that flood against them. The forme of their battaile was like a wedge; For at resembleth the letter Delta. And the front which shot out in a point, was concred capus precious, and clof, by reason it was hemmed in with Targets ( you would have faid they comp. a Vogetta. 19. terferred a frines head) but both the flanks on each fide lying our by files in depel. and stretching back ward by aswife, by little and little were parted and severed one from another, and bearing out fill toward thereare ended at last in a great distan , fo that the ground in the mid left betwirt them was empty, and the backes of the fouldiers that were in the wedge, appeared cleane through the files uncouered. For their faces were turned contrariwife one from another, to the end, they might beare them toward the enemy, and faue themselves from blowes, by casting their Targets before them. and secure their backe by placing them opposite to the backes of their followes. All things fellout according to Naries his wish, to whom both a faire opportunity was presented, and who had wisely before contrined what was to be done. For when the Barbarians running on furiously fell upon the Romans with a shout and outers giving upon the milder; they presently broake the front of those that stood in the word space, (for the Heruli were not yet come up) and the leaders of the point of the wedge cutting afunder all that stood in their way, even to the vetermost depth of the file, and yet making no great slaughter, were carried beyond the bringers up of Naxses battaile, and Some of themeontinued their course further, thinking to take in the Roman Campe, Then Narges presently turning about and extending out his wings, and making (as the Tactickes name is) an Epicampios emprosthia, commanded the archers on

4 It is fashioned when the Diphalange Antistomus. This manner of framing a wedge is described by Elian in the 36 Chapter : and yet that wedge set downe there openeth in front, keeping the reare flut, and is opposed against the right induction, and called Calemboios; here the wedge is deicribed that openeth the reare, keeping the front close, and is opposed against the square. But the manner of framing both standeth vpon one reafon: For the file-leaders being placed within the Cælembolos, the front of the battaile is opened and the reare kept close: in the other, the file-leaders being without, the reare is opened, the front faill maintained thut, Calem- Embe- Now the file-leaders place is varied in either of them, because of the seuerall effects which they worke. The hollow tronted wedge Cælembolos feeketh sold the enemy together, & fo defeat him. The other to dispart and rour and fo to gaine the victory. And because the stresse of the Calembors is within (for the flankes of the hollownesse classe in the enemy, and fight against his flanks) therefore are the file leaders the formost that fight within; as likewise because the outsides of the wedge of this Chapter beare all the weight of the fight, therefore in it are the file-leaders without. For as in all other battailes the file-leaders ought first to attach the enemy, fo is it likewise in these two formes. But where Elian saith, that this battell is made out of the Diphalange Antistomus, by ioyning thewings in front, and opening them behinde, I take the Text to be corrupted. For the Diphalange Antistomus hath the file-leaders within, to resist the horse that charge them, as the 40 Chapter teacheth this hath the file-leaders without to: breake the enemies battaile and diffeuer it. The Cælembolos indeed is framedour of the Diphalange Antiftomus: But the wedge of this Chapter fpringeth out of the Phalange Antiftomus, which hath the file-leaders without. And fo I am of opinion, it ought to be read in the Text. And yet there is no question but another way of figuring the wedge may be practifed then to leave it hollow behind. In this Chapter it is called Embolos, and Elian faith it is borrowed of the horse-wedge: Now that the horse-wedge is so-

Chapters of this Vegetius, which is wedge, you ought therewith you may ethnor alwayes; For out supernumeraries:

ng or Same-

th much exceeding when armed foot are ingers being thrown of bartaile is fet the I that with the vnepe with them; and the fame. And the file-leaders of the ti fight fecret, they deaders feuer themlikewise be ready to

be opposed against

tare; the second the Fhath beene : led by the enemics ever-Il fides. It is called d more particularly le hath the likeneffe . zeymologican thin, as I have noted was in whaten Plutarch faith, that belie is vita 4om the Indies quaf- lexandri. hollow forme, and patter the Rhodian eplacimoita Des f the Plesium. But in meserj.

length of a battaile, a the point of one from the front to ming in. e length or breadth wweer. 7 fo; for oftentimes Xenopo Meexplisi wife that the Ple- 310.A.

fium

through it.

lid, and not hollow within, is plaine by the 19 and 20 Chapters of this booke, I will conclude this Chapter with the caution of vegeting, which is this, that if you shill make a patre of rongs or a hallow wedge, you ought to haue referues in readinesse behinde the battaile, wherewith you may frame your rongs or wedge. And yet this caution holdeth not alwayes. For as a horse-wedge, so a foot-wedge may be framed without supernumeraries: as the 19 and 20 Chapters shew.

> Of the foot-battaile called Plefium, and of the Winding or Samefronted battaile to encounter it.

> > CHAP. XLIX.

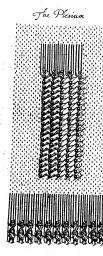
HE battaile Plesium hath the(2)length much exceeding the depth. And it is called Plefium when armed foot are placed on all fides, the archers and flingers being thrown into the middest. Against this kinde of battaile is set the

winding-fronted battaile, to the end that with the vnequall figure it may traine out those of the Plefium to cope with them; and by that meanes diffolue and diforder the thicknesse of the same. And the file-leaders of the winding fronted battaile obsertie the file-leaders of the Plesium, that if they still maintaine their closenesse and sight secret, they also encounter them in the like forme. If the Plefium file-leaders seuer themfelues and fpring out from their maine force, then they likewife be ready to meet them man to man.

## NOTES.

THis Chapter containeth two foot-battailes, one to be opposed against the other; the first called the Plesium, or hollow-square; the second the winding-fromed battaile or Peplegmene. Of which the first harh beene ded by all antiquity, especially by the Grecians, when soeuer the enemies evertopped in number, and they feared to be charged on all sides. It is called Plesium of the figure which is square 5 but originally and more particularly of the monld wherein bricks are cast. Because the barraile harh the likenesse anywherene of the mould; as being both square, and also hollow within as I have noted was in whereas, before. Neither is this name given to a battade alone; Plutarth faith, that the charior wherein Alexander rode, when he returned from the Indies quaf. lexandri. fing and rioting, was framed is analy, that is, in a square hollow forme, and the Helepolis (an engin which Demetrius inuented to batter the Rhodian Plan invita De-City) was tetragonall, and had 48 cubits in enery fide of the Plesium. But in menil. a battaile, that is Plefium, faith Elian, which

2 Hath the length manifoldly exceeding the depth.] The length of a battaile, as I have shewed heretofore, is that which runneth from the point of one as I haue the wen herecopore, is that which that is measured from the front to wing to the other in front 3, the depth, that is measured from the front to the reare. In the Plefium then, according to Elian, the length or breadth mount ought to be manifold to the depth. But it is not generally fo; for oftentimes \*\*Xaaph, Learn List you shall read of Plesums with dequal sides; and likewise that the Plesums with dequal sides; and likewise that the Plesums with descriptions of the sides of the sides



fium is fometimes hollow within, fometimes folid and filled up within with \* Zenophalezp.L: men: of which last kinde " Xenophon faith, many of the Barbarians framed their troopes in the battaile betwixt Artaxerxes and Cyrus. Of the first & lian speaketh in this Chapter: for he would have the foure sides to consist of armed, and the archers and flingers to be throwne into the hollownesse within. He hath before in the 42 Chapter described the Plinthium to be a square battaile in figure and number; this he would have to be a square with the front manifoldly longer then the flanke. So that both battailes a gree in that they are fquare, both in that they have armed on all fides, both in that they are hollow within; they differ onely in the forme of the fquare, which is longer in the Plesium, deeper in the Plinthium. Their affinity also appeareth in this also, that the Plinthium hath the name from a bricke, the Plesium from the mould of a bricke; yet are their names oftentimes confounded: For that which is called in one Author Plesium, is in another called \* Plas, in Antonio. Plinthium: as namely the battaile of Antony in Persia, is by Plutarch named Plefium by & Appian Plinthium.

To shew now the vse of this battaile, it is of the kinde of Defensives; and

h Thuced.La.

the Grecians, whenfoeuer they feared to be charged in flanke, front, and reare at once, or to be ouer-laid with number of enemies, had recourse vnto this forme. There is a notable example of it in h Thucydides. The Athenians having besieged Syracuse in Civill both by Sea and Land, and being over-come in two battailes by Sea, thought to march by land to some one of their confederate Ciof them half the ties in the Island; and searing to be round beset by the Syracustans in their way; Army under their Nicias one of the Athenian Generals put his part of the army in a Plefium, and fo marched before : Demosthenes the other Athenian Generall, followed with the other part of the army in the same forme. The armed tooke into the hollownesse of their bastailes the carrage and vnu sefull multitude. When they came to the foord of the riuer Anapis, they found the Syracusians and their allies embattailed there, whom having beaten from the place, they passed over and continued their march. The Syraculian borle still charged, and the light-armed ceased not to ply them with missing weapons; but yet they came not to hand-blowes, fearing to hazard against men defperately bent to fell their lives deerely. At last wearying them with many dayes skirmilh, and disordering their army, they forced them to yeeld. This History is at large fet downe by Thucydides. I have abridged it, lest it should take up too much roome; and yet have expressed both the forme in his words, and further the meanes, that the enemy vied to breake it, and to get the victory. This forme was vsed by the Grecians at their returne out of Persia, after that Clearchus and the other Coronels were enfnared by Tissaphernes, and put to death: and againe by Xenophon, when he retreated, after he had failed of the taking of Alidates prisoner, not farre from I ergamus a City of Lydia. For the meanes to diffolue this battaile, the principall is, not to charge at hand those that stand so embattailed, but to ply them farre off with miffue weapons; which is manifest by the fight of the Syraculians against Nicias and the Athenians; and by that of the Persians, who so assayled Xenophon in his retreat last mentioned. Alian setteth against it another forme of battaile which he tearmeth Peplegmene, the winding fronted battaile, which is by force called the fave : what kinde of battaile the fave is, I fee controverted. Some would have it confift of a conflant front indented, and not changeable or alterable in any part, during the charge. If that be the law, it cannot agree

I Xene; b.de exp. L3.303.E.

:plegmene to traine folue the gainst the \* Lee c.20.5.134. reftler, to end todener of emtht, as the efore, apcum assidue is faid to be Cine on and mouing is but by file Romit Adult. but the file- 2,380. t of the Pelegmene or to fall our reft in the s will moue made, but large. The if command

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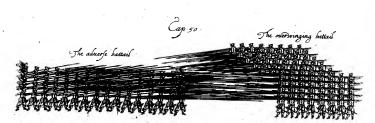
two kindes of battailes fer forth, which are (if I miftake not) of more efficacy, I am fure, fuch as haue beene more practifed, then any of the other, that goe before in this booke; and they specially guie advantage to them, that haue advantage in numbers of men, and can frame a larger fronted Phalange then the enemy, is able. And either of them opposeth a large from against the enemy, the one firetening it beyed the points of both their wings the other beyond the point one of their wings. The first kind is called the point of the p

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which he tearment expressment, the winding fronted bastaile, which is by lone called the fane : what kinde of battaile the fane is, I fee controuerted. Some would have it confift of a constant front indented, and not changeable or alterable in any part, during the charge. If that be the faw, it cannot agree

the Art of Embattailing Armies.

with Alians description, who would have the file leaders of the Peplegmene to aduance before their battaile, and be still in motion, of purpose to traine out the file leaders of the Plefium to meet them, thereby to diffolue the forme of their battaile. And this is but a stratagem to prevaile against the enemy. For, as Lee faith, a good Generallought, as a good wrefiler, to make thew of one thing, and to put another in practice to the end to deceine the enemy, and gaine the victory; as is done in this manner of embattailing; but that the Sawe is no constant or setled forme of fight, as the rest are, which are described by Elian in the Chapters going before, appeareth by Fiestus, whose words are these: Serra preliari dicitur, cum assidue acciditur, recediturque, neque vllo consistitur tempore. The skirmish is said to be made in the forme of a Same, when they that wee this forme continually give on and made in the forme of a save, were they that vie too forme to the moving is retire, and at notime fland fill. But we must vider fland that the moving is the we have the same to the same that the moving is not by mamples or by light-armed, as Lights interpreteth it, but by file. Rom 4 dains, leaders of the armed, as Alian teacheth, (with intent to traine out the file-1, 100 leaders of the Plefium, and so to disorder their battaile:) the rest of the Peplegmene standing still in their forme. Now then to make a Peplegmene or fawe-battaile, direction is to beginen to the file-leaders alone to fall our confusedly against the adverse Plesium of the enemy, and to the rest in the files to stand still. Otherwise being not forewarned, the whole files will moue and follow their leaders, which if they doe, this forme cannot be made, but the battaile remaineth as a square as it did before the going to charge. The forme of framing the bartail called the Plesium, and the words of command are described in my notes upon the 42 Chapter.

of Hyperphalangesis, and Hyperkerasis, and of Astenuation.

CHAP. L.

(i) Yperphalangelis, or ouerfronting is, when both wings of the Phalange ouer-reach the enemies front.

2 Hyperkerasis, or ouerwinging, is when with one of our wings we ouer-reach the front of the enemy. So that he char wings we ouer-reach the front of the enemy. So that he char ouerfronteth ouerfrontet For they that match not the enemy in multitude, may yet ouerwing him, 3 Attenuation is when the depth of the battaile is gathered vp, and in

flead of 16 a smaller number is set.

#### MOTES.

IN this Chapter, being the last, that describeth formes of battailes, are two kindes of battailes fet forth, which are (if I mistake not) of more efficacy, I am fure, fuch as have beene more practifed, then any of the other, that goe before in this booke; and they specially give advantage to them, that have advantage in numbers of men, and can frame a larger fronted Phalange then the enemy is able. And either of them opposeth a large front against the enemy, the one stretching it beyod the points of both their wings the other beyond the point one of their wings. The first kind is called Hi-

a Xcnopb Cyrop.

4-7-173-

64c.B.

Afr.385.

1.3.60.C. Polyh.l.11.

List. L. 28.204. E.

Hirtuis de bell.

paphalangesis over-fronting, the other Hyperkerasis, over-winging. Hyperphalangesis or ouer-fronting is, saith Elian;

1 When both wings of the Phalange ouer-reach the enemies front.] To make it then Hyperphalangelis, the front must be much broader then the enemies. & extended beyond both their wings, of purpose to ouer-reach & wrap them in, charging not onely the front, but also the flankes on both sides at once: which is fo dangerous a kinde of fight, that he that is fo affayled, can have no great hope of making relistance against his enemy; because the front being the place which is ordained for fight, and the pikes being bent and lying out from thence, if at the same time the flankes be also charged, the fides of the fouldiers must needs lye open to wounds, no man being able to defend himselfe, and turne his weapons two wayes at once. The ouer-fronting of a Crassus vsed against Cyrus, rehearsed by me in my notes upon the 46 Chapter, is an eminent example of Hyperphalangelis, whereby Crafus at one instant inuaded the front and both flanks of the enemies battaile. The b Arr. 1235. E. & like may be faid of the battaile of b Darius at Isfos & Gaugamela, against 1 lexander; and of Scipio against Afdruball Gifgoes sonne in Spaine; and of Lautenus against Casar in Africa. The manner of framing this forme is divers: For either you shew all your forces at first, or else conceale some part; and shewing all, you march in an euen and whole front, and bowing afterward your wings, enclose the flankes of the enemy, or else in on embowed forme at nrit (fuch as are the hollow-fronted battailes) and fo encompasse your enemy, taking him into the hollownesse, as you march forward. Of the first kind was the battaile of Labienus against Cafar which I mentioned last and those of Darius against Alexander; Of marching in an embowed forme, that of Crassus against Cyrus: Of concealing your number, that of Cleandrides againii the Thur an cited by me in my notes vpon the 29 Chapter of this booke; and of Scipio against Afdruball which is set downe at large in the notes vpon the 28 Chapter.

Sec Died.Sic of Philip against the Illyrians 1.1

aTbuyd.l.; See ih 1 Ke ex h ft. rek.44. \$15.E.5 1 6.A.B.

2 Haperkerosis is when we over-reach the enemies front with one of our winges. Ouerfronting is of both wings, overwinging but of one. So that albeit your number be smaller then the enemies, yet if you wrap in a part of his front, and one of his wings, you so our wing him. To shew an example of our winging you may finde in Thucidides, that the Argines with their allies, being in the field against the Lacedemonians and their allies, the battailes were ordered thus: The Lacedemonians gave the point of the left wing to the Scirites, who only of the Lacedemonians have alwa es that place. Next to them they ordered the fouldiample in Xenoib ers that came with Brasidas out of Thrace : Next them the new made Citizens by com; anies by their si es, first the Herwans, then the Menalians, Arcadians both. In the right wine were the Tegeans, and a few of the Lacedemonians in the point of that wing. The hor fe were ranged on both wings. Thus were the Lacedemonians embattailed. Their enemies thus; The Mantinaans had the right wing, because the warre was mid in their Territory : by them flood the Arcadians their confederates. Then 1000 felected Argines, whom the City had long time trained up in military exercife ; to whom to ned the other Argines ; and after them were ordered the Cleoneans, and the Ornestians their allies. The last were the Athenians, that had the left wing. ard i cirowne horfe b them. This was the preparation and embattailing of both parties. When they went to charge, the Argines and their allies marched forward with feed and great fury, the Lacedemonians legfurely according to the found of the fifes,

placed within their battaile, not for any religion sake, but to the end, that framing their motion to the found of the instrument, they might not in the march breake their order of embattailing, which great armies often doe in advancing, to ione with the enemy. When they were ready to loyne, King Agis bethought himfelfe of this stratagem : It is the manner of all armies in the onfet to firetch out their right wings, and with them to circumuent and encompasse the left wings of their adversaries ; because every fouldier carefull of his owne fefery feeke: 10 couer his vnarmed fide with the target of him that flandeth next to his right hand, and imagineth that the festing of targets close, serves for the best defence against the enemy. The cause is this ; the corner file-leader of the right wing desiring to withdraw as much as hee can his naked side from the weapons of the enemy proceedeth to the right hand, and the rest follow him. And at that time the Mantineans a great deale ouer-reached the Scirites with their wing. The Lacedemonians and Tegeats much more the Athenians, by reason they ouermatched them in number. Agis therefore fearing the encompassing of his left wing, seeing that the front of the Mantineans was very broad, and farre extended, gaue a signe to the Scirites and Brasideans to stretch out their wing, and to equal the front of the Mantineans. And for the void space that should remaine upon their adnancing; he commanded two Polemarchs or Coronels, Hipponoidas and Aristocles to lead therin two cohorts from the right wing, and fill up the void space, conceiming that he flould, this notwithstanding, leave himselfe firength enough in the right wine, and that the wing opposed against the Mantineans Sould hereby be better enabled to the encounter But it happened that Hipponoidas & At litocies followed nos these directions, whether the reason were in the sudden reffe of the command, or in the prevention of the enemies giving on . for which fault they were afterward banished Sparta, as men effeminate & cowards. when they came to hands, the right wing of the Mantineans put the Scirites and Brasideans to flight. And they and their allies, and the 1000 selected Ar gives falling into the empty space, that was not filled up, made a great flaughter of the Lacedemonians, and encompassing them forced them to turne their backes in haft, and flye to their woggon, and flue also some of the elder fort of Couldiers, that were left for guard there. sitherto Thucydides. I profecute nor the remanent of the battaile, because it is somewhat long. That which I have recited is erough for my purpole, namely to thew the manner of ouerwinging. Thus then apply it. The Mantineans had their right wing farre extended beyond the point of the left wing of the scintes and Brasidaans, who by marching out to the left hand fought to equal! the front of their aduerfaries, but left the ground voyd, wherein they were first placed. This ground by Agis his commandement should have been filled by the Cohorts of Hipponoidas and Aristocles. It was not filled, so that in the charge the enemy had the advantage to enter it, and to circumuent on that fide the Scirites and Brasideans, and put them to flight : which danger will be common to all that shall be so ouerwinged by their enemie. The danger then of ouer-fronting and ouer-winging being fo great, let vs fee what remedies and preventions against either of them have beene devised by antiquity.

Against over-fronting, they sought to secure the flanks of their battailes, Remedies sains fometimes by ordering their army in such a figure, as should be sufficient to ouer-fronting. fustaine the charge of the enemy, wherefoeuer he gaue on. Of which kinde is the Plefium or hollow- quare spoken of in the last Chapter, This was practi- The Plefium. fed by the Grecians at their returne out of Persia; and oftentimes by other Grecians, as is every where to be found in their histories. And Alex-

67 Epicampios pud.Su.1.17.592

ander when he was to fight with Darius at Gaugamela (the countrey being Champaigne, and Darius abounding in multitudes) defended himfelfe with And it is oc. an Epicampios opisthia, or a reare-hollow battaile. I have shewed the manner of it before in my notes upon the 46 Chapter. And fometimes againe by foreseeing the danger and placing reserves in the reare, or some other fecret place to charge the enemy in their flanke, while they bufie themfelues against your flankes. This b was practifed by Cyrus the elder against Crass, as I have shewed in my notes upon the 46 Chapter. Of this kinde Lio 1.145.8. also it is, when you lay an ambush to charge their reare, while they charge your flankes. The place will likewise helpe much to avoid encompassing. For if the battaile be fought in a streight place by nature, where the enemy cannot draw out his Phalange in length, there is no danger of encompaifing. So Alexander at Isfos in Cilicia was freed from encompassing, the place

being too narrow for Darins to bring all his forces into an equall front. The place may also be helped by art in case it be otherwise to open, and fit for the enemy, that aboundeth in number to encompasse vs on every side. So d Cafar being to fight against multitudes of Gaules, drew a deepe trench on gall La. 36.00 L3. both the flanks of his army to affure it from the charge of the enemy. The Flux in Sylicet like did Sylla against Archelaus the Generall of Mithridats in the battaile Appian in bell. Cheronea, and both of them fo fecuring their armies from circumuention. became by that meanes mafters of the field and conquerours of their ene-Turkinhiftery mies. Of later time 10. Huniades the Hungarian King being to fight against a huge army of the Turkes, gained a noble victory against them by placing his army on the one fide against a fenne, and enclosing it on the other

297.5.10

fide with his waggons. And these preuentions have beene deuised against Remedies againg Hyperphalangelis, or ouer-fronting. Against ouer-winning, they thought it fufficient to strenthen and make safe the wing, that was like to be endangered by the enemy; fo that all remedies against overfronting are good also a-

gainst ouerwinging : but the remedies against ouerwinging are not sufficient

\* Alimen of that opposeth against it. This is done by doubling of rankes as Elian tea-

h Polyen.la.in Cleandrida. C.4. Ze0 1.7.5 69.

. I co 6.14.5 108

141.F. Leoc.12.5.34.

by facing to the hand, where the enemies battaile ouerwingeth, and marching out against it paralelly, till your wing equall the wing of the enemy: but so notwithstanding that the void space, from whence you drew your wing, be filled vp, for feare the enemy give in to it, and diffresse you there, as may be seene by the president which in this Chapter I gaue out of Thucidides of our winging, and the example of the Co'chans, who fearing to be ouerfronted by the Grecians vpon a hill, vpon which they food embattailed, led their wings to the right and left hand to match the front of the \* x noph of exp 1.4 Grecians, leaving the middeft of their battaile empty, into which the Grecians conveying themselves easily put the Colchans to flight, as & Xenophon recordeth. 1 Ouerwinging is also prevented, if you hold referues secretly in the reare of your battaile to flye out voon the fudden against those for-

to frustrat overfroming. Overwinging therefore hath beene avoided sometimes

by drawing out the endangered wing in length to equall the enemies wing,

cheth in the 29 Chapter, and as it was practifed by h Cleandridge the La-

cedemonian against the Thurians. Wherein notwithstanding this caution

is to be held, that you double not your rankes fo, that you make the depth

of your body to thin; for i in fo doing your body will be as subject to brea.

king for want of depth as for want of length to ouerwing. Befide it is done

ces of the enemy, that feeke to our wing you. This remedy was vied by \* Cafar in the battaile of Pharfaly, when Pompey having abundance of horse-effer de beil cmen, fought to circumuent that wing of Ce ars battaile, which lay to the o- war 312. pen field, and was not guarded with a fence, as the other wing was. For to preuent the charge of these horse, Cafar bestowed certain cohorts, who were to hold themselves close in the reare of his legions; not facing as his legions did against the legions of Pompey, but facing into the field, from whence he fuspected the enemies horse would charge; so that when the horse charged, these cohorts suddenly falling out vpon them, and putting them to flight, were the beginning of Cafars victory. The place also often giueth affurance against ouerwinging, whether it be a river or the sea, or a mountaine, or such like, to which you may apply the fianke of your wing. For a river, you have the example of Clearchus in the baitaile betwixt Artanexxes and Cyrus the yonger, in which b Clearchus ordered his troupes of Grecians on the right b Mensph. de exwing close to the river Euphrates. And when Cyrus would have had him red 61.263 c. charge the middest of the Persian Phalange, because the King had placed himselfe there: (yer saith Xenophon) Clearchus seing the King was farre without the left wing of the Grecians (for the King so much exceeded in multitude, that the middest of his battaile was a great way without the left wing of CVFUS) would not withdraw his right wing from the river, fearing to be encompaffed on both

Gides .

The like was done by Alexander the Great in the Countrey of the Gotes: this is the effect of the words of Arrian; " When they (the Getes) fam Alexan- Arrive E. der industriously advance his Phalange by the rivers side, lest the foot might happily be circumvented and encompassed by some ambush of the Getes, and his horse in the front, the Getes for sooke also their City, which was not very well walled, Sitting many of their chil iren and wines upon their horses backes, as the horses could carry, and retired into the wilderneffe a great way from the riner. By the Sea you may avoide likewise ouer-winging, it you order one of the flanks of your Army close to the Sea fide. This was put in vie by Alexander when he fought the battaile against Darius at Istos in Citic . Thus hath Arrian; The foot of the left wine were commanded by Craterus, but the whole left wing by Parmenio, who was enionned not to for fake the Sea, for feare of encompassing by the Barbarians : for by realow of their number they might easily encircle the Macedonians on all parts. A Mountaine also that is steepe, will give good security to the flanke of a battatle, Died Sie Littage that may otherwise be encompassed. At the battaile of Platea which was fought betwirt the Grecians and Mardonius, Xerxes his Generall; the Grecian Army confifting of 100000 the Persian of 500 thousand, the Grecians at the first encamped at the foot, of the Mountaine Cytheron; but finding the place fitter for the multirude of the Persians, then for themselves. they removed their Campe, and chose a more commodious piece of ground to pursue the totall victory. For there was on the right hand a high hill, on the left, ran the river Asopus. The Campe was pitched in the middle space, which was fortified by the nature and safenesse of the plot of ground. Therefore the streightnesse of the place much fanoured the wife counfell of the Grecians, toward the obtaining of victory. For there was no roome for the Persians to extend their Phalange in any great propertion of length; so that many Myriades of the Barbarians came to be of now fe. The Grecians therefore Ministriceco. in confidence of the place, advanced their forces to fight, and ordering them selves according to the present occasion, led against the enemy. Mardonius being compelled to

make a deepe Phalange ordered his battaile in such fort, as he thought most convenient, and with cries fet forward against the Grecians. This example albeit it be a remedy against Hyperphalangesis, or ouer-fronting, yet because it giveth a fafegard by a mountaine to one of the wings, I take it to be proper enough to Hyperkerasis or ouer-winging. Besides that, as I before noted, all meanes that are vsed to avoid over-fronting, are good likewise for the avoiding of oner-winging.

3 Attenuation is.] This is nothing else but doubling of ranks: whereof fee the 29 Chapter.

## Of conveighing the carriage of the Army.

#### CHAR. XLV.

HE leading of the carriage, if any thing elfe, is of great (1) importance, and (2) requireth a speciall Commander.

It may be conveighed in 5 manners, (3) either before the army, or (4) behinde, or on the (5) one flanke, or the other, or in the (6) middeft.

Before, when you feare to be charged behinde: behinde, when you lead toward your enemy : when you feare to be charged in flanke, on the contrary side. In the middest when a hollow battaile is needfull.

#### NOTES.

\* Les.4.10.6 1.

I S of great importance.] The importange of disposing the carriage in a march is well set downe by Leo . You (saith hee to his Generall) out to have a speciall care of your baggage, and not to leave it at randon, but to secure it in the place where it shall be; nor to lead it unaduisedly into the battaile: For it oftentimes falleth out that servants fit for the Souldiers vie, and the fouldiers children and kinfmen are among ft it : and if it remaine not in safety, the mindes of the souldiers are distracted with doubtfulnesse and care and feare of the poyle thereof: for every man of understanding endeuoureth to possesse that which is the enemies, without losse of his owne. This is the aduice of Leo. A pregnant example hereof may be read in Diodorus Siculus his description of the last battaile betwixt Antigonus and Eumenes: In which Antigonus having foyled Eumenes horfe, fent his Median horse-men, and a sufficient number of Tarentines to insade the enemies baggage; For he hoped (which was true) not to be descried by reason of the dust, and by possessing the baggage to become vanquisher of the enemy without tranaile. They that were sent riding about the wing of their adversaries unperceived, fell upon the baggage, which was distant from the battaile about five furlongs. And finding by it a rabble of felke unfit for fight, and but a few left for gard thereof, putting them to flight quickly (that withstood) they made themselves masters of all the rest. Eumenes hearing that his baggage was loft, endeuoured notwithstanding to renew the fight, in hope by gaining the victory, not onely to preserve his owne baggage, but also to possesse that of the enemy. But the Macedonians refused to strike stroake, alleadging that their carriage was lost, and their children and wives, and many other bodies necessary were in the

2 Requireth a special Commander. That the baggage ought to have a speciall Commander Levalfo affirmeth : Freeting addeth a gard to the bag - bin 1705 11. gage, and Lea a proper Enfigne, faying; To every resiment there ought to be Leeus 13, allasted a Waggon Master, and a proper Enfigne as well to the horse as oxen, that they 54.0-24.515.

may be discerned to their owners by the colours of the Ensigne. 3 Either before the Army.] The first of the flue wayes, by which the baggage is conneighed in a march, is to lead it before the Army; which manner is to be put in practife, when the enemy pursueth in the reare: For if when the enemy followeth, the baggage should be behinde, he would soone haue meanes to feife vpon and rifle it, then you could haue to wheele about your army to succour it. For these flue manners of conneighing the carriage, Los agreeth with Elian in these words: Tour carriage, saith he, ought . Loss 14-519. to have a speciall Commander to order and governe it : and he is to lead it either before th: Army, if you dismarch out of the enemies Countrey; after the Army, if you inuade the enemies territory; on the one side or other, when you feare to be charged on the one or either of your flanks; within the phalange, when you have suspicion to be charged on all parts. So Leo agreeing with Elian.

4 Orbebinde.] The baggage is to be alwayes disposed of so, that the army may be betwirt it and the enemy. It ought to be before when the enemy is like to give on behinde, behinde, when he feeketh to affront you from before. And yet it fometimes falleth out, that all the baggage is not to be led behinde the whole army, according to this precept of Leo. Caufe instance enery drung or regiment (faith he to his Generall) to accustome their owne bag. When theremy gage to follow after their regiment with their owne Ensignes, and not to mingle with is noticated other. For it is necessary, when the enemy is neither present nor expected in our owne Country, to march either by Regiments or elfe by Formes; and not to gather your whole Army into one place, left they be eafily starued with hunger, or the number be quickly difcouered by the enemies effectals, or be feuered in forrage. In another place fpeaking of marching thorow woddy and rough wayes, he s hath thus: In Elices. See. case you have borse or baggage, lead your baggage behind: your Army, and after it the borfe, and after them a few light armed targatiers, to be as it were bringers up of the march, for feare of unexpected incursions which oftensimes chance to be made by the enemy. In another thus: When you enter your enemies Countrey, you shall Least 560. cause your carriage to march in the reare; but when the enemy draweth neere, you Bull bestow it in the middest of the Army. And in any case you must have your car- Leo Cto 5:18. riage, and the Captines (if you have any) seperated from the souldiers that are to fight, left if the enemy fall on roundis, they be hindered that are to fight. For the distance that the carriage ought to hold behinde the Army, the same Leo hath thus; If you thinke it convenient for the carriage to follow the Army, you are to order it a full bowe-shot from the Army, and let every part follow their owne bodies in good array : giving it such breadth in the march, as the Army possesset ; lest that lying out beyond the breadth of the Army, they become unsuccourable. These are the precepts of Lee concerning the conveighance of the carriage in the reare. For the practile of it you have a precedent of Cyrus the elder, which were Greek is at large rehearfed by me in my notes upon the 7 Chapter of this Booke: Liss.A.B. and another of I Alexander the Great, when hee led against the Persians at Archived.

the river Granicus, and an infinite number of other examples are to be found in History enery where.

5 Or on the one flanke, or the other. \ Elians precept for disposing of the Vide Leone. c. 14. baggage on the flanks, is very good: For it ought as much as is pollible, to be preserved from the touch of the enemy; neither can there be any berter way to fecure it, then your opposition, the Army betwixt it and the enemy; but fo, notwithstanding that it have a gard about it at all times, to save it from the fudden inuation of your enemies horfe. If therefore the enemy appeare on your left flank, your baggage is to be conucied on the right flank. If contrariwife the enemy come on to charge your right flanke, the baggage is to be removed to the left. And this holdeth, onely when the enemy appeareth vpon one flanke, and not on both. But in case the enemy appeare

on both flanks at once, then is the fafeft place for it. (6) In the middeft.] There are two manners of leading of the baggage in

the middest, and that according to the nature and condition of the ground, where our army marcheth. If therefore the way be straight, Leo giueth this precept; Those that leads their army through streights, having with it either baggage or prey, ought to divide it into a diphalange, and to march wing-wife in a right induction. A right induction, that is, which is narrow in front, and hath the depth stretched out in length : And this is to be done especially when there is a prey in the hands of the army. And if they confife of foot, the passage will be the easier through rough and cumber some places. If horse, the, are to alight and take the baggage and carriage into the middelf. But in such times and places, you are to appoint some chosen men onely for the defence of the prey, and to order them woon the foure fides of the Diphalange, as the place will give leave, to the end to follow it and repulse those of the enemy that offer to charge or distract it. And the battaile (or diphalange) fo ordered for the preservation of the carriage or prey be maintained while and entire. For it is not sollible for those of the Diphalangy both to defenathe prey in good order and to ione with the enemy that chargeth, which is the cause that there ought to be extraordinary men to march without the foure sides of the army; but especially you are to appoint the best of them to wait upon the reare: For so may at all times rough and troublesome places le passed through with safety. This is Leocs precept for streight & narrow pasfages: because in such you cannot forme your army into a hollow square. wherein the baggage is to be couched, and to be defended on all fides. For if the ground be open enough to cast your selfe into a square, hee holdeth the forme the fafest to give security to your baggage. These be his words. Place all four carriage, servants, and baggage, and provision, in the middest of your army. And in another place, speaking of a retreat to be made after an ouerthrow received, he writeth thus : You shall order your whole power into two Phalanges or battailes, or into one square Plinthium; in the middest whereof you shall put the carriage, beafts, and baggage, and without them the fouldiers in order, and without them the archers, and fo retire and depart in fafety. Againe he faith, In marches the enemy approaching, it is necessary to have your carriage in the middest, left being unquarded, it be spoyled and rifled. With Leo doth Xenophon agree. His words have this shew: I will not wonder, if as fearfull dogges are wont to follow and bite such as passe by, if they can, and to five from such as follow them, so the enemy hang upon our reare. Therefore we shall perhaps march the lafer, if making a Plesi-

um of the armed, the carriage and unprofitable multitude be throwne into the mid-

dest for more security. And if it be now determined who shall command the front of

Lc0 C-9-5-36-

Lee.s 14.5.24.

the Art of Embattailing Armies.

the Plesium, and who the two wings, and who the reare, wee shall not need to consule when the enemy approachesh, but execute that which is resolved upon. This is Xeno. phons counsell for the march in open ground, when the enemy abounderh in number of fouldiers : which counfell was often put in practice, and the Grecians being but 10000 fecured themselves against infinite multitudes of Persian horse that charged them on all sides, and also preserved, and led their carriage fafe in dispite of the enemy. The like was practifed by xcoophon afterward in the last warlike action of the Grecians in their returne out of Persia. He setteth downe the history after this manner; Now was it time, Xenoth despts. viz.after they had affaulted a fort in vaine, the enemy of the country gathering head) 304.6. to thinke upon a faire retreat, and conveying the onen and Sheep they had taken, and likewife the slaves into a Plessum; they quickly dismarched, not so much esteeming their prey, as fearing in case they left it behind, their departure might seeme a plaine running away, and the enemy gather heart, the Grecian souldiers be discouraged. So now they departed fighting as it were about the prey. The Souldiers with Xenophon being shrewdly annoyed with bowes & slings, cast themselves into a ring to the end to oppole their targets against the shot of the enemy, and with much adic passed the river Caicus, the one halfe of them being wounded. Agasias also the Stymphalian Captaine was burt whilest bee maintained fight with the enemy, during the wholeverreat. Tet they all returned fafe to the Campe bringing with them about 200 flanes, and seepe enough for Sacrifice. Here Xenophons fouldiers figured themselves first into 2 Plenum couching their prey in the middeft; afterward being ouerlayed with the enemies shot, they concerted their Plesium into a Ring, in which forme they recoursed their Came, notwithfranding the moleftation and often charging of a great multirude of horse and foot, that were enemy and followed them. Of the forme of Rings I finde not many examples amongst followed them. Of the forme of Alligs I made not they found themselues the Grecians; the Romans wied them often, when they found themselues encompassed by the enemy, as " Vegetius hath; and may bee seene in Cafars This Commentaries. And let thus be faid of the foure manners of placing the equity-debeth

Hirtuis de bell. A

Of the words of Command, and certaine observations about them.

## CHAP. LII.



Aft of all, we will briefly repeate the words of direction; if we admonish first that they ought to be short, then that they ought to be without double fignification. For the Souldiers, that in haste receive direction, had neede to take heede of doubtfull words, left one doe one thing, and another

the contrary. As for the purpole; If I fay turne your face, fome, it may be, that heare me, will turne to the right, fome to the left hand, and so no small confusion follow. Seeing therefore these words Turne your face import a generall fignification, and comprehend turning to the right or left hand; we ought in stead of faying turne your face to the pike, to pronounce it thus, To your pike surne your face; that is, we ought to fee the partigular before, and then inferre the generall; for fo will all doe alike together-

Like reason is, if you say Turne about your face, or countermarch : for these are also generall words, and therefore wee should doe well to fet the particular before. As to the pike turne your face about, or to the target, turne your face about: Likewise the Lacedemonian Countermarch, not the countermarch Lacedemonian : For if you place the word countermarch first, some of the Souldiers will happily fall to one kinde, other to another kinde of countermarch. For which cause words of double sence are to be avoided, and the speciall to be set before the generall.

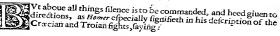
#### NOTES.

F we admonish first that they ought to be short.] The ordering and motions of I an army ought to be quickly performed, the rather because the transmutations of the body and the occasions of them are fudden for the most part. And therefore the meanes to worke the transmutations commanded (these meanes are the words of direction) ought to fuite to the nature of the motions themselves, and to be applyed to celerity by shortnesse of speach. Short speach is better carried away, and sooner put in execution, then speech that is longer. Yet is not such a shortnesse to be affected, as will bring with it obscurity, according to the saying of the Poet; Breuis effe labo. 70 - Obscurus fio. I labour to be short, and so become obscure. And therefore I take the practice of French Commanders, when they command Facing in these words: A draie, a gruche, to the right, to the left, without adding face, and likewise of the Netherlanders in imitation of the French Reebes om. flinks om, and of some English in these words, To the right, to the left, not pronouncing the motion which is to be made to the hand appointed. Thefe I fay, I take to be without the warrant of reason, and of all antiquity, from which Elian draweth this rule. For the command of right and left alone fheweth that the Commander would have a motion performed to the named hand but leaueth vicertaine what the motion should be, so that albeit fome fouldiers fall to a counter march, fome other to wheeling, or to doubling, or to facing, they are to be reputed blamelesse, and to have performed that which their direction willed them to doe, because the command was of mouing to the right or left hand onely, not shewing what motion should be made to either hand. Shortnesse therefore is required by Elian, but such a Shortnesseas is not wrapped up in obscurity, and which may fully deliuer the minde of the Commander to the fouldiers, which hee hath in exercise. And as the words ought to bee short, so ought they to be,

Without double fignification.] Where they have a double fignification, that is, may be diverfly understood by them, who are under direction; some of the fouldiers (as Elian faith) will doe one thing, fome another, which must needs breed a confusion in the body exercised. For as uniformity of motion in every particular fouldier preferueth the whole body, and every joynt. or part; thereof entire, fo the dissimilitude of motion in the particulars induceth a diffoynting, as it were, & a diforder of the multitude of the whole batthile in generall. To avoid then the inconvenience of double vnderstanding in words . Lian thinketh fit, that the special word should be placed before the generall, and in stead of Pace to the pike, he would have the Comthe Art of Embattailing Armies.

mander to pronounce thus: To the pike face (that is to the right hand:) holding the word right hand to be more speciall or dreighter in signification, then the word Face. Let me have pardon if I differ from Alian herein. For Logicians hold those words more generall, that stretch vnto, and comprehend under them most particulars. Now confidering there are foure motions of the battaile, which cannot be put in vie but by words of direction, and in the direction the wordright or left hand is of necessity to be applied to every of them (as for example Countermarch to the right or left hand. Face to the right or deft hand, and so of the rest: ) it is evident, that the word right hand, or left hand is more generall then any one of the motions, because it it retcheth to them all. So that albeit we retaine the rule of Elian, namely, to fet the speciall before the generall, yet may we very safely from his example, and not onely in facing, but also in the three other motions pronounce the direction thus: Face to the right or left hand, Double to the right or left hand, Countermarch to the right or left hand, Wheele to the right or left hand: because the word night or lest hand is more generall, then any one of the motions. But admit it were more particular, yet the necessity of our language would force vs to for fake this rule of Élian. For in euery language there is an idiome or propriety of speech, and that not onely in the phrase it felf, butalfo in the very joyning & tying together of the words of the fentence. So that that which forteth well with one language, will not be receiued in another. In Greeke, in which tongue Elian wrote, it foundeth well to place the nowne gouerned by a verbe, before the verbe it selfe. So in Latine, Dutch, French, and other rongues. In English if a man should doe the like (valefle it were in verse, wherein the number of the seet is more respected then the ordering of the words) he thould be accounted ridiculous or vaine. For take the example here set downe, to the right kan face, to the right hand double, or countermach, or wheele, and let vs vie the fame order of words in common speech, and a man say to his servant : To the Courch goe, to the mill corne carry, booses cleane make. To the cutler my rapies carry : Who would not laugh at his speech, or thinke him idle in so pronouncing. Wherefore albeit Alian hold that forme agreeable to the Greeke tongue, yet! cannot fee how it will be fit that our English, according to which I hold it better to pronounce after this manner: Face to right hand, Countermarch to the right hand, and so in the rest, then after this, To the righe hand fare, to the right hand countermarch; the rather because the property of speech anaileth much to the capacity of fouldiers, who for the most partare vnlearned, and will hardly understand, in case the wonted custome, and ordinary vse of ioyning words be inverted.

## CHAP. LIII.



The skilfull Captaines pressed on, quiding with carefull eye
Their armed troopers, who followed their leaders silently;
Tou surely would have deem deach one of all that mighty throng
Had beene bereft of speech, so bridled he his heedfull tongue;
Fearing the dread Commanders checke and dreadfull heest among:
Thus march'd the Greeks in silence, breathing slames of high desire
And servent Zeale to backe their friends, on soes to wreake their ire.

As for the disorder of the Barbarians he resembleth it to Birds, saying

As sholes of fowle, Geese, Granes, and Swans with necks far stresched out, Which in the stimy sens Caisters winding streames about. Sheere here and three the liquid skie, sporting on wanton wing, Then fall to ground with clanging noyse, the sens all ouer ring. None otherwise the Traian, fill the field with heaped sounds of broken anaconsigled cries, each where tummle abounds.

#### And againe:

The Captaines marshall out their troopes ranged in 200dly guise, And forth the Troians pace like birds, that lade the ayre with cryes. Not so the Greekes, whose selented flames of high desire, Feruent in zeale to backe their friends, on socs to wreake their ire.

## NOTES.

CIlence when a battaile is put in order either for fight, or exercise, is one Of the principall points of obedience, which belongeth to a fouldier; the breach whereof more endangereth the proceeding of warre, then a rawe fouldier would thinke, who onely is wont to offend in that kind. I have before entreated of fignes, and shewed, that in the obseruing of directions confisteth the greatest helpe of victory; in neglecting them, the chiefest meanes to take an ouerthrow, and be defeated. For as directions being executed give life vnto warlike actions to effect that which the Commander defireth, fo what soeuer hindereth the receiving of directions, must needs crosse the designes of the Commander, and by consequence frustrate and disanull that which was thought by him most fit to be put in practice either for the good order, or for the preservation of the Army, or else for the gayning of victory: A man that is not attentiue cannot marke the command deliuered: Nor can he be attentiue, that whilest it is deliuered busieth his head with other thoughts, or elfe entertaineth his next standers by with talke, a meanes to divert aswell the speaker as the hearer from that heed which ought to be given to direction; in a frauch as no man hath the ability to heare another mans speech, and himselfe take at the same instant, or at the same time to discerne two mens severall speeches, which are delivered together. All generals have held Silence a principall point of warlike difcipline. And therefore in Commands they make it the first. Less precept is this : When the troopes are drawne together, and ordered for exercise, let the cryer (for every company had then a cryer) give these directions: Doe what wou are comenanded with silence ; keepe your places every man, follow your colours. And in another place he writeth thus: When your tring goeth out to ione with the enemy, Locales 63. there ought to be a deepe silence; For that both presents the Army from disorder, and also maketh the directions of the Commanders to be heard with more attention. And againe thus: There ought to be as much slenice as may be in the Army, and if the thingers up of any file, hearebut a whispring of their fellows in the file, they are toprickethe parties with the points of their pikes, and so to redresse the file, they alexander when he was returning from the Country of the Taulantians, into which he had made an inrode, sound his way beset with enemies, and being to east his Army into a forme of battaile to sight, he sirst commanded an absolute silence, and then proceeded to other directions. And for the effect of in-slenics, our owne story hath a memorable example of the Army of Edward College.

As for the filence here prescribed by Æsian, it extendeth not onely to exercise and fight, but oftentimes to the marching of an Army, and to the Campe, as appeareth by the last example, and by Loos precept in his election that the control of the

Of the words of direction.

#### CHAP. LIIII.

Thus then are we to command.

r To your armes.

Carriage away from the battaile.

3 Be filent and marke your directions.

4 Take vp your armes.

Seperate your felues.

6 Aduance your Pikes.

7 File your felues.

Ranke your felues.

Looke to your leaders.

10 Reare-Commander strengthen your file.

11 Keepe your first distances.

12 Face to the pike.

Moue a little further. Stand fo.

12 As you were.

14 Face to the Tar,

Lezespir.5.65.

Nous

16 Face about to the pike.

17 As you were.

18 Double your depth.
19 To your first posture.

20 The Lacedemonian Countermarch.

21 To your first posture.

22 The Macedonian Countermarch.

73 To your first posture.24 The Chorgan Count

24 The Choræan Countermarch.

25 To your first posture.

The precepts of the art Tacticks have I delivered vnto you (most invincible Cofar) which I make no doubt, will bring to the practice satety, and victory over his enemies.

### NOTES.

Zee 147-7-5-88

Hese words of direction here set downe, are rather to shew the manner of Com mand, then to expresse the just number of directions vsed in exercise : yet doth Lee the Emperour transcribe fome of them, albeit not all, out of Elian; and the last in Leo hath a mixture of two motions in one direction, being delivered in these words, TOP NAMELY AND THE WORDS To Sieviemelom; which is in Latine translated by Sir John Chek Laconicum ed hastam trivolve; and may be thus englished, wheele thrice the Lacedemonian Countermarch to the right hand; wherein there is both wheeling and the Lace emontan Countermarch commanded at once, a thing im, officie to be performed. For as in wheeling, the whole battaile remaineth entire, and moueth circlewise about the right of left corner fileleader, as about a Center: So in a Countermarch Lacedemonian it is broken, and beginneth to moue by feuerall ranks, and continuerh the motion in a direct line from the front to the reare, and not in a circle. But for the precepts of Elian I purposeto explaine onely such as are vsed by the Souldiers and Commanders of our time: And after taking of armes I hold this to be the first, at lest when we begin to moue.

#### 6 Aduance your Pikes.

Pikesinordering of a battaile must be first advanced before any motion can be performed, in as much as allother postures of the Pike doe hinder, or else are vnsit for transfmutations and variety of changes, and from advancing the rest of pike-postures doe spring. Ordering of the Pike was deusied to ease the Souldier standing still s shouldering, to ease him in matching; advancing, to give facility to the other postures, and to finish them, because they both begin and end in it.

#### 7 & 8. File andranke your selues.

It is needlesse to note, that no battaile can be without filing and ranking.

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This we must understand, that the Captaine is to see whether the Souldiers be filed and ranked; but the action it selfe pertained to the Souldiers, who knowing their files and rankes, are euery man to take their place accordingly: for so ought it to be in true discipline of Warre.

# 9 Looke to your Leader.

The file leader is the life, and giver of forme vnto the file. He is the life in that he moueth first, and draweth the rest vnto the same motion; he gives the forme vnto it, because it being nothing else but a right line, his standing, being the first point, directed the rest to follow lineally one after mother. In this precept therefore Looke to your Leader two things are on nunated, one that the rest of the sile should obscrue to move and stand thid, as he doth; the other, that they should maintaine a straightnesse and rightnesse in length, which is the forme of the file.

# 10 Reare-commander order your file.

See Elian (4,17

In the Greeke Edition of Action is read serons, that is, file leader. But in a Manuscript, which I have seene, is serons, the bringer up or reare-commander, and so is tread in Lew Tacicks; and I take it to be the true rea-Lumps, setting, this command rather appertaining to the reare. Commander, then to the file-leader: for the file-leader being the foremost of the file, and bearing his face out of the front, how can he see whether the file that is behinde him, be in right order or not. The bringer-up hath his face toward the whole file, as it standeth out before him: and therefore may easily discerne it any man be in disorder, and resonne them that are the cause of the disorder. In which respect it is euident, that he is fitter for the command, then the slie-keader; which is the cause, that I have translated the word of direction, as before, Kaue-commander order your file.

# II Kespe your first distances. That is, stand in your open order. For in that distance is the exercise first Legunne.

It is a feemely thing to see an euen proportion observed in the motion of see Estatale, and to behold a direct space betwixt files and rankes. For that is the grace and beauty (as I may terme it) of a Phalange ordered for fight, This proportion cannot be maintayned without observing distance curiously. Open order is sixe foot both in ranke and file betwixt man and man euery way. If then any souldier in file gather up to his leader, and stand at distance of three foot, it is manifest, that his ranke is thereby disturbed and made vneuen, although the file continue streight. Contrariwise, is the beat? himselse out of his place, three foot toward either of his side-men, by this mear es he disordereth his file and makesh it crooked. This full if it were committed by many, a generall disorder would follow in the body 1 and therefore Elian well admitted to keepe the first distances especially till you be commanded to the second or third distance, which will often fall out in the foure motions. Of which Facing is the first 3 and the words of Facing the direction in it are these second in Elian.

22 Face

3 2

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See Elian before

That is, Face to the tight hand; For the pike was alwayes borne in the right hand.

## 14 Face to the Target.

12 Face to the Pike.

The Pike-men in the Macedonian army bore targets on their left armes, or on the left fide, fo that facing to the target is all one with the word of command; Face to the left hand.

## 16 Face about to the pike or target.

That is, face about to the right or left hand. But where hee addeth [mone a linite further.] he fignifies that the direction is not tuity accomplished, and he would have the fouldiers continue their motion till their faces were fully come about to the reare; and then hee willeth them to fland \$\vec{\ellip}\$, became they have gayned their place. These facings here expressed by \$\sim \text{lian}\$, are of the whole body. Other facings of the parts he hath not fer downe, which notwithstanding are oftentiones of great vsc. For say the enemy charge in front and reare; your front must continue as it did, but the word for the reare is:

\* The \*mphiftomus Phalange. Halfe files face about to the right or left hand.

If the enemy charge you on both flankes, then is the word of command.

& The Antil'ozous Phalange. b Halfe rankes face to the right, halft to the left hand.

If in front and one flanke, the front standeth firme, and the word for the flanke that is charged, is:

The Plefium.

Halferankes of the right (or left) flanke, Face to the band named.

If in front and both flankes, the front is to fland firme, and both the flanks to face to the enemy. And this is done in a hollow fquare or Plefium, and the word is:

Flankes face one to the right the other to the left hand.

If on all fides or round about, it is as before for the flankes: but for the reare,

The reare face about to the right or left hand.

Now in Countermarch of the reare, the ranke of file leaders is oftentimes commanded to face about to the right or left hand; In countermarch of the front, the ranke of bringers vp must doe the like, as wee shall see in Countermarch. Doubling is the second motion yield in battaile, the precept of it in this in £lian.

Drubling.

18 Double

18 Double your depth.

The word in our exercife for this motion is, Double your files; because files measure the depth of the battaile, or rankes measure the length. This coubling is made many wayes. The first is, when the euen files (that is, the 2.4.6.8.10. file) fall into the odde; As if the doubling be to the right hand, the right hand corner-file standerh firme, and is the first after doubling; the third is the second file, the fifth the third, and to the rest of the odde files in order. But the manner is, that the leaders of the second file fall directly behind the leader of the first file, and the second man of the second file shind the second man of the first file, and to the rest of those two files. The same order is for the rest of the euen files, when they double the odde files. And the word is:

## Double your files to the right or left hand.

Another manner is, when halfe the body of files conveyes it felfe into the spaces of the other halfe of the body; be it to the right or left hand according to direction given; so that the first ranke of the halfe body, which is to move, fals into the space next after the first ranke of the halfe body that shandeth, and so the rest of the rankes of the halfe body that the moves of the halfe body that moveth, and the word is:

#### Halfe the body double your files to the rightor left hand.

Another is, when files are doubled by a countermarch: As if the fecond file of the right or left hand (as it is appointed) countermarch, and the leader of that file place himfelfe behind the bringer up of the corner file to that hand, to which the doubling is to be made; and so the reft of the files of euen number, behinde those of odde number; as the second behind the fift, the fourth behind the third, the fixt behind the fifth, and so the reft. The word is:

Double your files by countermarch to the right or left hand.

The next word in Elian is

Double your length.

That is double your rankes, or from: (For as I before noted, the rankes make the length of the battaile) which likewife is many wayes done. The firft is, when the rankes of euen appellation, as the 2.4.6.8.8cc. fall out into the spaces of the odde, namely, into the spaces of the 1.3.5.7.8cc. which stand before them and place themselves even with them in ranke. The word is:

Double your rankes to the right or left hand.

Another way is, when the bringers-up (their halfe files following them:

I 3

by.

3 Mation-

by countermarch) advance vp to the front, and place themselves in the spaces betwixt the file leaders to the hand appointed, and the rest of the ranks accordingly, namely, the ninth ranke in the spaces of the second, the eight in the spaces of the third, the seuenth in the fourth, the fixth in the spaces of the fifth. And the word is:

Bringers up double your front by countermarch to the right or left hand.

Another is, when the reare-halfe-files, one halfe-face to the right, the other to the left hand, and dividing themselves, merch out till they bee past the flankes of the standing halfe-files : Then facing to the front, sleeue vp and front with the standing halfe-files. Then the word is:

Reare halfe files, double your front by division so the right and left hand.

Another way is, when the reare-halfe-files vadiuided, face to the hand appointed, and being beyond the flanke of the reat of the body, face to the front and sleeue vp, and ioyne in front with the standing halfe-files. The word is:

Reare halfe-files, enter double your front to the right or left hand.

It is to be observed, that in all these motions of doubling rankes or front, the fouldiers are to return after their motion to their first posture; which is done by facing about to the right or left hand, and then by mouing, and by recouering their first place. The word is:

As you were.

Countermarch is the third motion yield in the change of a battaile. The vie and necessity the reof appeareth in Elian before, and that there are two kindes, one by file, the other by ranke. The words of command that hee here fetteth downe, are onely of countermarch by file, which may be reduced to two kindes, viz. the Countermarch of the front and the Countern arch of the reare. That of the front hath likewise two kindes, the Lacedemonian and the Chorean: That of the reare onely one, and it is called the Macedonian Countermarch. Now Elian: direction followeth.

20 The Lacedemonian Countermarch.

This is one of the Countermarches by file, and of the front. The manner is, that the file-leaders beginne the Countermarch and passe beyond the reare, their files following them. In our exercise the word is:

Countermarch the front to the right or to the left hand.

It is done after another fort also, as when the bringer up face about to the right or left hand, and then the whole body facing about to the fame hand, patiethorow the spaces of the bringers up to the firme hand and the ninth ranke, beginning the rest of the ranks after one are there, place themselves euery paricular man before his follower in the fune: file, till the file-leaders are first. The word is:

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Bringers up face to the right, or to the left hand. The reft beginning at the numbranke, paffetherow to the sum band, and place eners man himselfe before his follower.

As you were.

In Elian followeth:

22 The Macedonian Countermarch.

We in our exercise tearmethis Countermarch of the reare, and it is done in two manners: First, when the bringers up begin the Countermarch, and their files following paffe thorow the spaces of the file leaders, till the file-leaders become the last of the file, and then the whole body face a-

Countermarch the reare to the right or left hand. Face about to the comtrary hand, and stand.

The other when the file-leaders face about to either hand, and the rest of the ranks beginning at the second ranke, succeffinely passe thorow the spaces of the file leaders to the hand appointed, placing themselues enery man oehind his next leader, and facing about as they did. The word is:

File leaders face a out, the rest of the rankes passe thorow, and place your felues ochinac your next leaders.

The next in Elian is:

24 The Chorean Countermarch.

This Countermarch is of the front, as I faid, but it keepeth the ground, that the body had before the file-leaders (their files following them) remoued to the places of the bringers vp, and the bringers vp to the places

File-leaders, countermarch to the right or left hand, and stand, viz. when they come to the bringers up.

Other Countermarches there are, which are not here fer downeby Gan, but are remembred in his Chapter of Countermarches; of which the countermarch by ranks of the whole barraile is one, the other is the countermarch by ranks in the parts. And as in the Countermarch of the front or reare, the rankes first began to move, so in Countermarch of the slanke, the files entire beginne to moue; and as in the Counter natch of the front or reare, the ranks followed one another by file, so in Countermarch of the flankes, the files follow one another by ranke: that is, the fouldiers of energy ranke follow one another. If you would countermarch the right flanke, to to change one fide of the battaile for the other, the word is:

Counsermarch the right flanke to the left hand.

Bringers

To countermarch the wings into the middest, both the vttermost corner-fles are to move toward the middest, their halfe rankes following them, and meeting in the middest to stand there, and face to the front; and theword is;

Countermarch your wings into the middest of the battaile.

Observe, that in Countermarch by ranke, the three Countermarches Macedonian, Lacedonomian, and Choraan may be practifed, as well as in Countermarch by file. If the slanke neerest to the enemy begin the Countermarch, this the Macedonian countermarch, because it maketh a snew of shifting away. If the slanke surfact from the enemy begin, it is the Lacedomonian, in that it carrieth a semblance of falling on. But when one slanke countermarcheth, till it come instruction of the other, and no surther; it is the Choraan, because it keepeth the same ground.

The fourth Mo-

Wheeling is the fourth and last motion; and it is vsed in the whole entire battaile, or in the parts thereof. \*\*Elian\* giveth words of direction for the whole battaile onely, and they are these;

#### Wheelethe body to the Pike, or to the Target.

When the battaile is to wheele to the pike or right hand, the right hand corner file-leader is onely to turne h's body by little and little to the right hand, facing euen with the ranke of file-leaders, till fuch time as hee haue gained the right hand afpect; and the restare to moue about him, making him the centor, as it were, of stein circled motion. If to the less thand, the less thand corner file-leader is to doe the like, The same order is of wheeling the battaile about to the right or less thand. As lim (as I said) given here no other words of command, then for the wheeling of the whole body, yetare the wheelings of the parts of great vie; for either the sankes are wheeled into the front, or the front into the slankes. The front is wheeled into the slankes, when we desire to forme the Antistomus Phalange to ressist the enemy, giving on both slankes. And then the two middlemost bringers vp are to stand, and the middle file-leaders to divinde themselues, and to move halse the battaile to the right, hale to the less hand, making those two bringers vp the center of the motion. In this the word is:

#### Wheele the front into flanks by division.

If the flanks be to be wheeled into the front, the two middle file-leaders are to fland fill, and the two halfe bodies to moue about them, one to the right hand, the other to the left, till the two flanks be in the front, and the front in the middleft. This kind is practifed when we would frame the Diphalange Antiflomus. The word is:

Wheele

Wheele the flanks into the front.

It is to be remembred, that after every motion a reftitution to the first posture is to be commanded in these words; As you were.

In facing you are to returne to the contrary hand, as if the command were to face to the right, in returning you come to the left.

In doubling you must doe the like.

In countermarch likewife, whether you countermarch the whole body, or the parcels thereof, you are to returne by the contrary hand.

After wheeling, there ought to be a facing to the fame hand first before you returne, and then a returning the contrary way about the same corner file-leader, about whom the motion was tirst made. This is to be understood of wheeling the whole body.

In wheeling the front into the flanks, after wheeling performed, the body before returning is to face to the Commander, then to return about the fame bringers vp, till all come to be as they were.

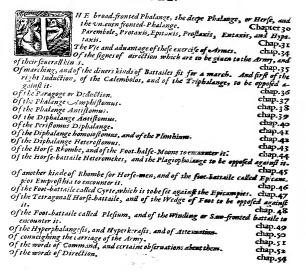
In wheeling the flanks into the front, after the wheeling is made, the body is to face likewife to the Commander, then facing about to the right or left hand to return to the first polture about the two middle file-leaders, as about their center.

His castus artemque repons.

FfNfs.



# The Contents of the CHAPTERS of this BOOKE.



FINIS.